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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office

April 16, 2004

THIS IS TO CERTIFY THAT ANNEXED HERETO IS A TRUE COPY FROM THE RECORDS OF THE UNITED STATES PATENT AND TRADEMARK OFFICE OF THOSE PAPERS OF THE BELOW IDENTIFIED PATENT APPLICATION THAT MET THE REQUIREMENTS TO BE GRANTED A FILING DATE.

APPLICATION NUMBER: PCT/US03/27772

FILING DATE: September 04, 2003

RELATED PCT APPLICATION NUMBER: PCT/US03/41273

By Authority of the COMMISSIONER OF PATENTS AND TRADEMARKS

T. LAWRENCE Certifying Officer

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International Application No.	PCT/US03/27772
Atterney Docket No.	TPI-350

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PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

ANTI WARR BYRYE

For receiving Office use only

International Application No.

0.4 SEP 2003 (04,09,03)

PCT INTERNATIONAL APPLICATION RO/US

Applicant's or agent's file reference

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Box No. I	TITLE OF	INVENTION					
Pharmace	eutical Co-	Crystal Compo	sitions				
Box No. II	APPLICAN	Т	This persor	is also inventor			
Name and add The address mus Box is the applica	ress: (Family no stinclude postal o ant's State (that i	ame followed by given i code and name of coun is, country) of residence	ion. Tel	lephone No. 781) 674-	-8000		
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TRANSFORM PHARMACEUTICALS, INC.						(781) 863-6519	
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Box No. III	FURTHER	APPLICANT(S)	AND/OR (FURTI	HER) INVENTOR	(S)		
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Almarsson, Örn	applicant and inventor				
22 Farmington Drive	inventor only (If this check-box is marked, do not fill in below.)				
Shrewsbury, MA 01545					
US	Applicant's registration No. with the Office				
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This person is applicant for the purposes of: all designated lesignated the United States except the United States of America	the United States of America only the States indicated in the Supplemental Box				
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Bourghol Hickey, Magali	applicant and inventor				
342 Malden Street	inventor only (If this check-box is marked, do not fill in below.)				
Medford, MA 02155 US					
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Peterson, Matthew	pplicant and inventor				
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Framingham, MA 01701 US	is marked, do not fill in below.)				
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Zaworotko, Michael J.	applicant and inventor				
4202 E. Fowler Ave. (USF30244)	inventor only (If this check-hox				
Tampa, FL 3362 US	is marked, do not fill in below.)				
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This person is applicant all designated all designated States except for the purposes of: States all designated the United States of America	the United States of America only the States indicated in the Supplemental Box				
Further applicants and/or (further) inventors are indicated on another con-	tinuation sheet.				

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Further applicants a	nd/or (further) invent	ors are indicated or	another continue	ation s	sheet.	

Sheet No. ...4...

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The	ne following designations are hereby made under Rule 4.9(a):								
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	AP ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZM Zambia, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT (if other kind of protection or treatment desired, specify on dotted line)								
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	EP European Patent: AT Austria, BE Belgium, BG Bulgaria, CH & LI Switzerland and Liechtenstein, CY Cyprus, CZ Czech Republic, DE Germany, DK Denmark, EE Estonia, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, HU Hungary, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, RO Romania, SE Sweden, SI Slovenia, SK Slovakia, TR Turkey, and any other State which is a Contracting State of the European Patent Convention and of the PCT								
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Supplemental Box

If the Supplemental Box is not used, this sheet should not be included in the request.

- If, in any of the Boxes, except Boxes Nos. VIII(i) to (v) for which a special continuation box is provided, the space is insufficient to furnish all the information: in such case, write "Continuation SALIMANCHIK Devict to firms not me information. Insurences, the box) and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in particular:
- if more than two persons are to be indicated as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;
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- if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation" of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;
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- if, in Box No. VI, there are more than five earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI.
- If, with regard to the precautionary designation statement contained in Box No. V, the applicant wishes to exclude any 2. State(s) from the scope of that statement: in such case, write "Designation(s) excluded from precautionary designation statement" and indicate the name or two-letter code of each State so excluded.

SALIWANCHIK, David R.; LLOYD, Jeff; PACE, Doran R.; SANDERS, Jay M.; KYLE, Jean; PARKER, James S.; LADWIG, Glenn P.; EFRON. Margaret H.; and DANIELS, Gwendolyn, L.

THE ABOVE ARE MEMBERS OF THE FIRM OF SALIWANCHIK, LLOYD & SALIWANCHIK, AND HAVE THE SAME ADDRESS AS THE INDIVIDUAL LISTED IN BOX IV.

Continuation of Box VI.

This application claims the benefit of US Provisional Patent Application 60/451,213, filed February 28, 2003; US Provisional Patent Application 60/463,962, filed April 18, 2003; and US Provisional Patent Application 60/487,064, filed July 11, 2003. This application is also a Continuation-In-Part of 10/378,956, filed March 3, 2003 which claims the benefit of US Provisional Patent Application 60/360,768, filed March 1, 2002.

		Sheet No						
Box No. VI PRIORIT	Y CLAIM							
The priority of the followi	ng earlier application(s) is here	eby claimed:						
Filing date	Number	Where earlier application is:						
of earlier application (duy/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application:				
itcm (1) 28/02/2003 (28 Feb. 2003)	60/451,213	US						
item (2) 11/07/2003 (11 Jul. 2003)	60/487,064	us						
item (3) 18/04/2003 (18 Apr. 2003)	60/463,962	us						
item (4) 03/03/2003 (03 Mar. 2003)	10/378,956	us						
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Box No. VIII (i)	Declaration as to the identity		,.	·				
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Box No. VIII (iii)	Declaration as to the applic	cant's entitlement, as at the of the earlier application	e international filing	:				
Box No. VIII (iv)	Declaration of inventorship United States of America)	(only for the purposes of	the designation of the	:				
Box No. VIII (v)	Declaration as to non-prejud	dicial disclosures or excep	tions to lack of novelty					

Box No. IX CHECK LIST; LANGUAGE OF FILING						
This international application contains: (a) in paper form, the following number of sheets:		Number of items				
request (including	1. X fee calculation sheet :	1				
declaration sheets) : 7	2. original separate power of attorney :					
description (excluding sequence listings and/or	3. original general power of attorney :					
tables related thereto) : 416	4. copy of general power of attorney; reference number,					
claims · : 16	if any:					
abstract : 1	5. statement explaining lack of signature					
drawings : 46 Sub-total number of sheets : 486	6. priority document(s) identified in Box No. VI as ttem(s):					
sequence listings :	7. translation of international application into (language):					
tables related thereto : (for both, actual number of	8. separate indications concerning deposited microorganism or other biological material					
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Pharmaceutical Co-Crystal Compositions

INCORPORATION BY REFERENCE

The content of US Patent Application No. 60/451,213 filed on February 28, 2003 is incorporated herein by reference in its entirety.

FIELD OF THE INVENTION

The present invention relates to co-crystal API-containing compositions, pharmaceutical compositions comprising such APIs, and methods for preparing the same.

BACKGROUND OF THE INVENTION

Active pharmaceutical ingredients (API or APIs (plural)) in pharmaceutical compositions can be prepared in a variety of different forms. Such APIs can be prepared so as to have a variety of different chemical forms including chemical derivatives or salts. Such APIs can also be prepared to have different physical forms. For example, the APIs may be amorphous, may have different crystalline polymorphs, or may exist in different solvation or hydration states. By varying the form of an API, it is possible to vary the physical properties thereof. For example, crystalline polymorphs typically have different solubilities from one another, such that a more thermodynamically stable polymorph is less soluble than a less thermodynamically stable polymorph. Pharmaceutical polymorphs can also differ in properties such as shelf-life, bioavailability, morphology, vapour pressure, density, colour, and compressibility. Accordingly, variation of the crystalline state of an API is one of many ways in which to modulate the physical properties thereof.

It would be advantageous to have new forms of these APIs that have improved properties, in particular, as oral formulations. Specifically, it is desirable to identify improved forms of APIs that exhibit significantly improved properties including increased aqueous solubility and stability. Further, it is desirable to improve the processability, or preparation of pharmaceutical formulations. For example, needle-like crystal forms or habits of APIs can cause aggregation, even in compositions where the API is mixed with other substances, such that a non-uniform mixture is obtained. It is also desirable to increase the dissolution rate of API-containing pharmaceutical compositions in water, increase the bioavailability of orally-

administered compositions, and provide a more rapid onset to therapeutic effect. It is also desirable to have a form of the API which, when administered to a subject, reaches a peak plasma level faster, has a longer lasting therapeutic plasma concentration, and higher overall exposure when compared to equivalent amounts of the API in its presently-known form.

SUMMARY OF THE INVENTION

It has now been found that new co-crystalline forms of APIs can be obtained which improve the properties of APIs as compared to such APIs in a non-co-crystalline state (free acid, free base, zwitter ions, salts, etc.).

Accordingly, in a first aspect, the present invention provides a co-crystal pharmaceutical composition comprising an API compound and a co-crystal forming compound, such that the API and co-crystal forming compound are capable of co-crystallizing from a solid or solution phase under crystallization conditions.

Another aspect of the present invention provides a process for the production of a pharmaceutical composition, which process comprises:

- (1) providing an API which has at least one functional group selected from ether, thioether, alcohol, thiol, aldehyde, ketone, thioketone, nitrate ester, phosphate ester, thiophosphate ester, ester, thioester, sulfate ester, carboxylic acid, phosphonic acid, phosphinic acid, sulfonic acid, amide, primary amine, secondary amine, ammonia, tertiary amine, sp2 amine, thiocyanate, cyanamide, oxime, nitrile, diazo, organohalide, nitro, s-heterocyclic ring, thiophene, n-heterocyclic ring, pyrrole, o-heterocyclic ring, furan, epoxide, peroxide, hydroxamic acid, imidazole, and pyridine;
- (2) providing a co-crystal forming compound which has at least one functional group selected from ether, thioether, alcohol, thiol, aldehyde, ketone, thioketone, nitrate ester, phosphate ester, thiophosphate ester, ester, thioester, sulfate ester, carboxylic acid, phosphonic acid, phosphinic acid, sulfonic acid, amide, primary amine, secondary amine, ammonia, tertiary amine, sp2 amine, thiocyanate, cyanamide, oxime, nitrile, diazo, organohalide, nitro, s-heterocyclic ring, thiophene, n-heterocyclic ring, pyrrole, o-heterocyclic ring, furan, epoxide, peroxide, hydroxamic acid, imidazole, and pyridine;
- (3) grinding, heating or contacting in solution the API with the co-crystal forming compound under crystallization conditions;
 - (4) isolating co-crystals formed thereby; and

(5) incorporating the co-crystals into a pharmaceutical composition.

A further aspect of the present invention provides a process for the production of a pharmaceutical composition, which comprises:

- (1) grinding, heating or contacting in solution an API compound with a cocrystal forming compound, under crystallization conditions, so as to form a solid phase;
- (2) isolating co-crystals comprising the API and the co-crystal forming compound; and
 - (3) incorporating the co-crystals into a pharmaceutical composition.

In a further aspect, the present invention provides a process for the production of a pharmaceutical composition, which comprises:

- (1) providing (i) an API or a plurality of different APIs, and (ii) a cocrystal forming compound or a plurality of different co-crystal forming compounds, wherein at least one of the APIs and the co-crystal forming compounds is provided as a plurality thereof;
- (2) isolating co-crystals comprising the API and the co-crystal forming compound; and
 - (3) incorporating the co-crystals into a pharmaceutical composition.

Solubility Modulation

In a further aspect, the present invention provides a process for modulating the solubility of an API, which process comprises:

- (1) grinding, heating or contacting in solution the API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound; and
- (2) isolating co-crystals comprising the API and the co-crystal forming compound.

Dissolution Modulation

In a further aspect, the present invention provides a process for modulating the dissolution of an API, whereby the aqueous dissolution rate or the dissolution rate in

simulated gastric fluid or in simulated intestinal fluid, or in a solvent or plurality of solvents is increased or decreased, which process comprises:

- (1) grinding, heating or contacting in solution the API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound; and
- (2) isolating co-crystals comprising the API and the co-crystal forming compound.

In one embodiment, the dissolution of the API is increased.

Bioavailability Modulation

In a further aspect, the present invention provides a process for modulating the bioavailability of an API, whereby the AUC is increased, the time to T_{max} is reduced, the length of time the concentration of the API is above ½ T_{max} is increased, or C_{max} is increased, which process comprises:

- (1) grinding, heating or contacting in solution the API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound; and
- (2) isolating co-crystals comprising the API and the co-crystal forming compound.

Dose Response Modulation

In a further aspect the present invention provides a process for improving the linearity of a dose response of an API, which process comprises:

- (1) grinding, heating, or contacting in solution an API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound; and
- (2) isolating co-crystals comprising the API and the co-crystal forming compound.

Increased Stability

In a still further aspect the present invention provides a process for improving the stability of a pharmaceutical salt, which process comprises:

- (1) grinding, heating or contacting in solution the pharmaceutical salt with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound; and
- (2) isolating co-crystals comprising the API and the co-crystal forming compound.

Difficult to Salt or Unsaltable Compounds

In a still further aspect the present invention provides a process for making co-crystals of difficult to salt or unsaltable APIs, which process comprises:

- (1) grinding, heating or contacting in solution the API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound; and
- (2) isolating co-crystals comprising the API and the co-crystal forming compound.

Decreasing Hygroscopicity

In a still further aspect the present invention provides a method for decreasing the hygroscopicity of an API, which method comprises:

- (1) grinding, heating or contacting in solution the API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound; and
- (2) isolating co-crystals comprising the API and the co-crystal forming compound.

Crystallizing Amorphous Compounds

In a still further embodiment aspect the present invention provides a process for crystallizing an amorphous compound, which process comprises:

- (1) grinding, heating or contacting in solution the API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound; and
- (2) isolating co-crystals comprising the API and the co-crystal forming compound.

Decreasing Form Diversity

In a still further embodiment aspect the present invention provides a process for reducing the form diversity of an API, which process comprises:

- (1) grinding, heating or contacting in solution the API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound; and
- (2) isolating co-crystals comprising the API and the co-crystal forming compound.

Morphology Modulation

In a still further embodiment aspect the present invention provides a process for modifying the morphology of an API, which process comprises:

- (1) grinding, heating or contacting in solution the API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound; and
- (2) isolating co-crystals comprising the API and the co-crystal forming compound.

In a further aspect, the present invention provides a co-crystal composition comprising a co-crystal, wherein said co-crystal comprises an API compound and a co-crystal forming compound. In further embodiments the co-crystal has an improved property as compared to the free form (including a free acid, free base, zwitter ion, hydrate, solvate, etc.) or a salt (which includes salt hydrates and solvates). In further embodiments, the improved property is selected from the group consisting of: increased solubility, increased dissolution, increased bioavailability, increased dose response, decreased hygroscopicity, a crystalline form of a normally amorphous compound, a crystalline form of a difficult to salt or unsaltable compound, decreased form diversity, more desired morphology, or other property described herein.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 PXRD pattern for a co-crystal of carbamazepine and saccharin (Form I)
Fig. 2 DSC thermogram for a co-crystal of carbamazepine and saccharin

(Form I)

Fig. 3 PXRD pattern for a co-crystal of carbamazepine and nicotinamide (Form I)

- Fig. 4 DSC thermogram for a co-crystal of carbamazepine and nicotinamide (Form I)
- Fig. 5 PXRD pattern for a co-crystal of carbamazepine and trimesic acid (Form I)
 - Fig. 6 PXRD pattern for a co-crystal of topiramate and 18-crown-6
 - Fig. 7 DSC thermogram for a co-crystal of topiramate and 18-crown-6
 - Fig. 8 PXRD pattern for a co-crystal of olanzapine and nicotinamide (Form I)
 - Fig. 9 DSC thermogram for a co-crystal of olanzapine and nicotinamide (Form
- I)
- Fig. 10 PXRD pattern for a co-crystal of celecoxib and 18-crown-6
- Fig. 11 DSC thermogram for a co-crystal of celecoxib and 18-crown-6
- Fig. 12 PXRD pattern for a co-crystal of itraconazole and succinic acid
- Fig. 13 DSC thermogram for a co-crystal of itraconazole and succinic acid
- Fig. 14 PXRD pattern for a co-crystal of itraconazole and fumaric acid
- Fig. 15 DSC thermogram for a co-crystal of itraconazole and fumaric acid
- Fig. 16 PXRD pattern for a co-crystal of itraconazole and tartaric acid
- Fig. 17 DSC thermogram for a co-crystal of itraconazole and tartaric acid
- Fig. 18 PXRD pattern for a co-crystal of itraconazole and malic acid
- Fig. 19 DSC thermogram for a co-crystal of itraconazole and malic acid
- Fig. 20 PXRD pattern for a co-crystal of itraconazoleHCl and tartaric acid
- Fig. 21 DSC thermogram for a co-crystal of itraconazoleHCl and tartaric acid.
- Fig. 22 PXRD pattern for a co-crystal of modafinil and malonic acid
- Fig. 23 PXRD pattern for a co-crystal of modafinil and benzamide
- Fig. 24 PXRD pattern for a co-crystal of modafinil and mandelic acid
- Fig. 25 PXRD pattern for a co-crystal of modafinil and glycolic acid
- Fig. 26 PXRD pattern for a co-crystal of modafinil and fumaric acid
- Fig. 27 Dissolution profile for a co-crystal of celecoxib:nicotinamide vs. celecoxib free acid
- Fig. 28 Dissolution profile for co-crystals of itraconazole:succinic acid, itraconazole:tartaric acid and itraconazole:malic acid vs. itraconazole free base
- Fig. 29 Hygroscopicity profile for a co-crystal of celecoxib:nicotinamide vs. celecoxib sodium
- Fig. 30 PXRD pattern for a co-crystal of olanzapine and nicotinamide (Form II)

Fig. 31 PXRD pattern for a co-crystal of olanzapine and nicotinamide (Form III)

Fig. 32A-D Packing diagrams and crystal structure of olanzapine and nicotinamide (Form III)

Fig. 33 DSC thermogram for a co-crystal of 5-fluorouracil and urea

Fig. 34 TGA thermogram for a co-crystal of 5-fluorouracil and urea

Fig. 35 Raman spectrum for a co-crystal of 5-fluorouracil and urea

Fig. 36 PXRD pattern for a co-crystal of 5-fluorouracil and urea

Fig. 37 PXRD pattern for a co-crystal of hydrochlorothiazide and nicotinic

acid

Fig. 38 PXRD pattern for a co-crystal of hydrochlorothiazide and 18-crown-6

Fig. 39 PXRD pattern for a co-crystal of hydrochlorothiazide and piperazine

Fig. 40 DSC thermogram for a co-crystal of modafinil and malonic acid

Fig. 41 TGA thermogram for a co-crystal of modafinil and malonic acid

Fig. 42 Raman spectrum for a co-crystal of modafinil and malonic acid

Fig. 43 PXRD pattern for a co-crystal of modafinil and maleic acid

Fig. 44A-B An acetaminophen 1-D polymeric chain and a co-crystal of acetaminophen and 4,4'-bipyridine, respectively.

Fig. 45A-B Pure phenytoin and a co-crystal with phenytoin and pyridone, respectively.

Fig. 46A-D Pure aspirin and the corresponding crystal structure are shown in Figures 46A and 46B, respectively. Figures 46C and 46D show the supramolecular entity containing the synthon and corresponding co-crystal of aspirin and 4,4'-bipyridine, respectively.

Fig. 47A-D Pure ibuprofen and the corresponding crystal structure are shown in Figures 7A and 7B, respectively. Figures 7C and 7D show the supramolecular entity containing the synthon and corresponding co-crystal of ibuprofen and 4,4'-bipyridine, respectively.

Fig. 48A-D Pure flurbiprofen and the corresponding crystal structure are shown in Figures 48A and 48B, respectively. Figures 5C and 5D show the supramolecular synthon and corresponding co-crystal of flurbiprofen and 4,4'-bipyridine, respectively.

Fig. 49A-B The supramolecular entity containing the synthon and the corresponding co-crystal structure of flurbiprofen and trans-1,2-bis(4-pyridyl)ethylene, respectively.

- Fig. 50A-B The crystal structure of pure carbamazepine and the co-crystal structure of carbamazepine and *p*-phthalaldehyde, respectively.
 - Fig. 51 The co-crystal structure of carbamazepine and nicotinamide (Form II).
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- Fig. 53A-C The chemical structures of ibuprofen, flurbiprofen, and aspirin, respectively.
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 - Fig. 59 PXRD diffractogram for a co-crystal of celecoxib and nicotinamide
 - Fig. 60 DSC thermogram for a co-crystal of celecoxib and nicotinamide
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 - Fig. 62 Raman spectrum for a co-crystal of celecoxib and nicotinamide
 - Fig. 63 Hydrogen-bonding motifs observed in co-crystals

DETAILED DESCRIPTION OF THE INVENTION

The term "co-crystal" as used herein means a crystalline material comprised of two or more unique solids at room temperature, each containing distinctive physical characteristics, such as structure, melting point and heats of fusion, with the exception that, if specifically stated, the API may be a liquid at room temperature. The co-crystals of the present invention comprise a co-crystal former H-bonded to an API. The co-crystal former may be H-bonded directly to the API or may be H-bonded to an additional molecule which is bound to the API. The additional molecule may be H-bonded to the API or bound ionically or covalently to the API. The additional

molecule could also be a different API. Solvates of API compounds that do not further comprise a co-crystal forming compound are not co-crystals according to the present invention. The co-crystals may however, include one or more solvate molecules in the crystalline lattice. That is, solvates of co-crystals, or a co-crystal further comprising a solvent or compound that is a liquid at room temperature, is included in the present invention, but crystalline material comprised of only one solid and one or more liquids (at room temperature) are not included in the present invention, with the previously noted exception of specifically stated liquid APIs. The co-crystals may also be a co-crystal between a co-crystal former and a salt of an API, but the API and the co-crystal former of the present invention are constructed or bonded together through hydrogen bonds. Other modes of molecular recognition may also be present including, pi-stacking, guest-host complexation and van der Waals interactions. Of the interactions listed above, hydrogen-bonding is the dominant interaction in the formation of the co-crystal, (and a required interaction according to the present invention) whereby a non-covalent bond is formed between a hydrogen bond donor of one of the moieties and a hydrogen bond acceptor of the other. Hydrogen bonding can result in several different intermolecular configurations. For example, hydrogen bonds can result in the formation of dimers, linear chains, or cyclic structures. These configurations can further include extended (twodimensional) hydrogen bond networks and isolated triads (Fig. 63). An alternative embodiment provides for a co-crystal wherein the co-crystal former is a second API. In another embodiment, the co-crystal former is not an API. In another embodiment the co-crystal comprises two co-crystal formers. Co-crystals may also be formed where the API is a "guest" molecule in regions of a crystalline lattice formed by the co-crystal forming compound, thus forming an inclusion complex. For purposes of the present invention, the chemical and physical properties of an API in the form of a co-crystal may be compared to a reference compound that is the same API in a different form. The reference compound may be specified as a free form, or more specifically, a free acid, free base, or zwitter ion; a salt, or more specifically for example, an inorganic base addition salt such as sodium, potassium, lithium, calcium, magnesium, ammonium, aluminum salts or organic base addition salts, or an inorganic acid addition salts such as HBr, HCl, sulfuric, nitric, or phosphoric acid addition salts or an organic acid addition salt such as acetic, proprionic, pyruvic, malanic, succinic, malic, maleic, fumaric, tartaric, citric, benzoic, methanesulfonic,

ethanesulforic, stearic or lactic acid addition salt; an anhydrate or hydrate of a free form or salt, or more specifically, for example, a hemihydrate, monohydrate, dihydrate, trihydrate, quadrahydrate, pentahydrate; or a solvate of a free form or salt. The reference compound may also be specified as crystalline or amorphous.

According to the present invention, the co-crystals can include an acid addition salt or base addition salt of an API. Acid addition salts include, but are not limited to, inorganic acids such as hydrochloric acid, hydrobromic acid, sulfuric acid, nitric acid, and phosphoric acid, and organic acids such as acetic acid, propionic acid. hexanoic acid, heptanoic acid, cyclopentanepropionic acid, glycolic acid, pyruvic acid, lactic acid, malonic acid, succinic acid, malic acid, maleic acid, fumaric acid, tartatic acid, citric acid, benzoic acid, o-(4-hydroxybenzoyl)benzoic acid, cinnamic acid, madelic acid, methanesulfonic acid, ethanesulfonic acid, 1,2-ethanedisulfonic acid, 2-hydroxyethanesulfonic acid, benzenesulfonic acid, p-chlorobenzenesulfonic acid, 2-naphthalenesulfonic acid, p-toluenesulfonic acid, camphorsulfonic acid, 4methylbicyclo[2.2.2]oct-2-ene-1-carboxylic acid, glucoheptonic acid, 4,4'methylenebis(3-hydroxy-2-ene-1-carboxylic acid), 3-phenylpropionic acid, trimethylacetic acid, tertiary butylacetic acid, lauryl sulfuric acid, gluconic acid, glutaric acid, hydroxynaphthoic acid, salicylic acid, stearic acid, and muconic acid. Base addition salts include, but are not limited to, inorganic bases such as sodium. potassium, lithium, ammonium, calcium and magnesium salts, and organic bases such as primary, secondary and tertiary amines (e.g. isopropylamine; trimethyl amine, diethyl amine, tri(iso-propyl) amine, tri(n-propyl) amine, ethanolamine, 2dimethylaminoethanol, tromethamine, lysine, arginine, histidine, caffeine, procaine, hydrabamine, choline, betaine, ethylenediamine, glucosamine, N-alkylglucamines, theobromine, purines, piperazine, piperidine, morpholine, and N-ethylpiperidine).

The ratio of API to co-crystal former may be stoichiometric or non-stoichiometric according to the present invention. For example, 1:1, 1:1.5 and 1:2 ratios of API:co-crystal former are acceptable.

It has surprisingly been found that when an API and a selected co-crystal forming compound are allowed to form co-crystals, the resulting co-crystals give rise to improved properties of the API, as compared to the API in a free form (including free acids, free bases, and zwitter ions, hydrates, solvates, etc.), or an acid or base salt thereof particularly with respect to: solubility, dissolution, bioavailability, stability, Cmax, Tmax, processability, longer lasting therapeutic plasma concentration,

hygroscopicity, crystallization of amorphous compounds, decrease in form diversity (including polymorphism and crystal habit), change in morphology or crystal habit, etc. For example, a co-crystal form of an API is particularly advantageous where the original API is insoluble or sparingly soluble in water. Additionally, the co-crystal properties conferred upon the API are also useful because the bioavailability of the API can be improved and the plasma concentration and/or serum concentration of the API can be improved. This is particularly advantageous for orally-administrable formulations. Moreover, the dose response of the API can be improved, for example by increasing the maximum attainable response and/or increasing the potency of the API by increasing the biological activity per dosing equivalent.

Accordingly, in a first aspect, the present invention provides a pharmaceutical composition comprising a co-crystal of an API and a co-crystal forming compound. such that the API and co-crystal forming compound are capable of co-crystallizing from a solution phase under crystallization conditions or from the solid-state, for example, through grinding or heating. In another aspect, the API has at least one functional group selected from ether, thioether, alcohol, thiol, aldehyde, ketone, thioketone, nitrate ester, phosphate ester, thiophosphate ester, ester, thioester, sulfate ester, carboxylic acid, phosphonic acid, phosphinic acid, sulfonic acid, amide, primary amine, secondary amine, ammonia, tertiary amine, sp2 amine, thiocyanate, cyanamide, oxime, nitrile, diazo, organohalide, nitro, s-heterocyclic ring, thiophene, n-heterocyclic ring, pyrrole, o-heterocyclic ring, furan, epoxide, peroxide, hydroxamic acid, imidazole, and pyridine anda co-crystal forming compound which has at least one functional group selected from ether, thioether, alcohol, thiol, aldehyde, ketone, thioketone, nitrate ester, phosphate ester, thiophosphate ester, ester, thioester, sulfate ester, carboxylic acid, phosphonic acid, phosphinic acid, sulfonic acid, amide, primary amine, secondary amine, ammonia, tertiary amine, sp2 amine, thiocyanate, cyanamide, oxime, nitrile, diazo, organohalide, nitro, s-heterocyclic ring, thiophene. n-heterocyclic ring, pyrrole, o-heterocyclic ring, furan, epoxide, peroxide, hydroxamic acid, imidazole, and pyridine, or a functional group in a Table herein, such that the API and co-crystal forming compound are capable of co-crystallizing from a solution phase under crystallization conditions.

The co-crystals of the present invention are formed where the API and cocrystal forming compound are bonded together through hydrogen bonds. Other noncovalent interactions, including pi-stacking and van der Waals interactions, may also be present.

In one embodiment, the co-crystal former is selected from the co-crystal formers of Table I and Table II. In other embodiments, the co-crystal former of Table I is specified as a Class 1, Class 2, or Class 3 co-crystal former (see column labeled "class" Table I). In another embodiment, the difference in pK_a value of the co-crystal former and the API is less than 2. In other embodiments, the difference in pK_a values of the co-crystal former and API is less than 3, less than 4, less than 5, between 2 and 3, between 3 and -4, or between 4 and 5. Table I lists multiple pK_a values for co-crystal formers having multiple functionalities. It is readily apparent to one skilled in the art the particular functional group corresponding to a particular pK_a value.

In another embodiment the particular functional group of a co-crystal former interacting with the API is specified (see for example Table I, columns labeled "Functionality" and "Molecular Structure" and the column of Table II labeled "Co-Crystal Former Functional Group"). In a further embodiment the functional group of the API interacting with the co-crystal former functional group is specified (see, for example, Tables II and III).

In another embodiment, the co-crystal comprises more than one co-crystal former. For example, two, three, four, five, or more co-crystal formers can be incorporated in a co-crystal with an API. Co-crystals which comprise two or more co-crystal formers and an API are bound together via hydrogen bonds. In one embodiment, incorporated co-crystal formers are hydrogen bonded to the API molecules. In another embodiment, co-crystal formers are hydrogen bonded to either the API molecules or the incorporated co-crystal formers.

In a further embodiment, several co-crystal formers can be contained in a single compartment, or kit, for ease in screening an API for potential co-crystal species. The co-crystal kit can comprise 5, 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100, or more of the co-crystal formers in Tables I and II. The co-crystal formers are in solid form and in an array of individual reaction vials such that individual co-crystal formers can be tested with one or more APIs by one or more crystallization methods or multiple co-crystal formers can be easily tested against one or more compounds by one or more crystallization methods. The crystallization methods include, but are not limited to, melt recrystallization, grinding, milling, standing, co-crystal formation from solution by evaporation, thermally driven crystallization from solution, co-crystal

formation from solution by addition of anti-solvent, co-crystal formation from solution by vapor-diffusion, co-crystal formation from solution by drown-out, co-crystal formation from solution by any combination of the above mentioned techniques, co-crystal formation by co-sublimation, co-crystal formation by sublimation using a Knudsen cell apparatus, co-crystal formation by standing the desired components of the co-crystal in the presence of solvent vapor, co-crystal formation by slurry conversion of the desired components of the co-crystal in a solvent or mixtures of solvents, or co-crystal formation by any combination of the above techniques in the presence of additives, nucleates, crystallization enhancers, precipitants, chemical stabilizers, or anti-oxidants. The co-crystallization kits can be used alone or as part of larger crystallization experiments. For example, kits can be constructed as single co-crystal former single well kits, single co-crystal former multi-well kits, multi-co-crystal former single well kits, or multi-co-crystal former multi-well kits.

In a further embodiment, the API is selected from an API of Table IV or elsewhere herein. For pharmaceuticals listed in Table IV, co-crystals can comprise such APIs in free form (i.e. free acid, free base, zwitter ion), salts, solvates, hydrates, or the like. For APIs in Table IV listed as salts, solvates, hydrates, and the like, the API can either be of the form listed in Table IV or its corresponding free form, or of another form that is not listed. Table IV includes the CAS number, chemical name, or a PCT or patent reference (each incorporated herein in their entireties). In further embodiments, the functional group of the particular API interacting with the cocrystal former is specified. A specific functional group of a co-crystal former, a specific co-crystal former, or a specified functional group or a specific co-crystal former interacting with the particular API may also be specified. It is noted that for Table II, the co-crystal former, and optionally the specific functionality, and each of the listed corresponding interacting groups are included as individual species of the present invention. Thus, each specific combination of a co-crystal former and one of the interacting groups in the same row may be specified as a species of the present invention. The same is true for other combinations as discussed in the Tables and elsewhere herein.

In each process according to the invention, there is a need to contact the API with the co-crystal forming compound. This may involve grinding the two solids together or melting one or both components and allowing them to recrystallize. This

may also involve either solubilizing the API and adding the co-crystal forming compound, or solubilizing the co-crystal forming compound and adding the API. Crystallization conditions are applied to the API and co-crystal forming compound. This may entail altering a property of the solution, such as pH or temperature and may require concentration of the solute, usually by removal of the solvent, typically by drying the solution. Solvent removal results in the concentration of both API and co-crystal former increasing over time so as to facilitate crystallization. Once the solid phase comprising any crystals is formed, this may be tested as described herein.

The co-crystals obtained as a result of such process steps may be readily incorporated into a pharmaceutical composition by conventional means.

Pharmaceutical compositions in general are discussed in further detail below and may further comprise a pharmaceutically-acceptable diluent, excipient or carrier.

In a further aspect, the present invention provides a process for the production of a pharmaceutical composition, which process comprises:

- (1) providing an API which has at least one functional group selected from ether, thioether, alcohol, thiol, aldehyde, ketone, thioketone, nitrate ester, phosphate ester, thiophosphate ester, ester, thioester, sulfate ester, carboxylic acid, phosphonic acid, phosphinic acid, sulfonic acid, amide, primary amine, secondary amine, ammonia, tertiary amine, sp2 amine, thiocyanate, cyanamide, oxime, nitrile diazo, organohalide, nitro, s-heterocyclic ring, thiophene, n-heterocyclic ring, pyrrole, o-heterocyclic ring, furan, epoxide, peroxide, hydroxamic acid, imidazole, and pyridine or of Table II or III;
- (2) providing a co-crystal former which has at least one functional group selected from ether, thioether, alcohol, thiol, aldehyde, ketone, thioketone, nitrate ester, phosphate ester, thiophosphate ester, ester, thioester, sulfate ester, carboxylic acid, phosphonic acid, phosphinic acid, sulfonic acid, amide, primary amine, secondary amine, ammonia, tertiary amine, sp2 amine, thiocyanate, cyanamide, oxime, nitrile, diazo, organohalide, nitro, s-heterocyclic ring, thiophene, n-heterocyclic ring, pyrrole, o-heterocyclic ring, furan, epoxide, peroxide, hydroxamic acid, imidazole, and pyridine or of Table I, II, or III;
- (3) grinding, heating or contacting in solution the API with the co-crystal forming compound under crystallization conditions;
 - (4) isolating co-crystals formed thereby; and
 - (5) incorporating the co-crystals into a pharmaceutical composition.

In a still further aspect the present invention provides a process for the production of a pharmaceutical composition, which comprises:

- (1) grinding, heating or contacting in solution an API with a co-crystal forming compound, under crystallization conditions, so as to form a solid phase:
- (2) isolating co-crystals comprising the API and the co-crystal forming compound; and
 - (3) incorporating the co-crystals into a pharmaceutical composition.

Assaying the solid phase for the presence of co-crystals of the API and the co-crystal forming compound may be carried out by conventional methods known in the art. For example, it is convenient and routine to use powder X-ray diffraction techniques to assess the presence of co-crystals. This may be affected by comparing the spectra of the API, the crystal forming compound and putative co-crystals in order to establish whether or not true co-crystals had been formed. Other techniques, used in an analogous fashion, include differential scanning calorimetry (DSC), thermogravimetric analysis (TGA) and Raman spectroscopy. Single crystal X-ray diffraction is especially useful in identifying co-crystal structures.

In a further aspect, the present invention therefore provides a process of screening for co-crystal compounds, which comprises:

- (1) providing (i) an API compound, and (ii) a co-crystal forming compound; and
- (2) screening for co-crystals of APIs with co-crystal forming compounds by subjecting each combination of API and co-crystal forming compound to a step comprising:
- (a) grinding, heating or contacting in solution the API with the co-crystal forming compound under crystallization conditions so as to form a solid phase; and
- (b) isolating co-crystals comprising the API and the co-crystal forming compound.

An alternative embodiment is drawn to a process of screening for co-crystal compounds, which comprises:

- (1) providing (i) an API or a plurality of different APIs, and (ii) a cocrystal forming compound or a plurality of different co-crystal forming compounds, wherein at least one of the API and the co-crystal forming compound is provided as a plurality thereof; and
- (2) screening for co-crystals of APIs with co-crystal forming compounds by subjecting each combination of API and co-crystal forming compound to a step comprising
- (a) grinding, heating or contacting in solution the API with the co-crystal forming compound under crystallization conditions so as to form a solid phase; and
- (b) isolating co-crystals comprising the API and the co-crystal forming compound.

Solubility Modulation

In a further aspect, the present invention provides a process for modulating the solubility of an API, which process comprises:

- (1) grinding, heating or contacting in solution the API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound; and
- (2) isolating co-crystals comprising the API and the co-crystal forming compound:

In one embodiment, the solubility of the API is modulated such that the aqueous solubility is increased. Solubility of APIs may be measured by any conventional means such as chromatography (e.g., HPLC) or spectroscopic determination of the amount of API in a saturated solution of the API, such as UV-spectroscopy, IR-spectroscopy, Raman spectroscopy, quantitative mass spectroscopy, or gas chromatography.

In another aspect of the invention, the API may have low aqueous solubility. Typically, low aqueous solubility in the present application refers to a compound having a solubility in water which is less than or equal to 10 mg/mL, when measured at 37 degrees C, and preferably less than or equal to 5 mg/mL or 1 mg/mL. Low aqueous solubility can further be specifically defined as less than or equal to 900, 800, 700, 600, 500, 400, 300, 200 150 100, 90, 80, 70, 60, 50, 40, 30, 20 micrograms/mL, or further 10, 5 or 1 micrograms/mL, or further 900, 800, 700, 600, 500, 400, 300,

200 150, 100 90, 80, 70, 60, 50, 40, 30, 20, or 10 ng/mL, or less than 10 ng/mL when measured at 37 degrees C. Aqueous solubility can also be specified as less than 500, 400, 300, 200, 150, 100, 75, 50 or 25 mg/mL. As embodiments of the present invention, solubility can be increased 2, 3, 4, 5, 7, 10, 15, 20, 25, 50, 75, 100, 200, 300, 500, 750, 1000, 5000, or 10,000 times by making a co-crystal of the reference form (e.g., crystalline or amorphous free acid, free base or zwitter ion, hydrate or solvate), or a salt thereof. Further aqueous solubility can be measured in simulated gastric fluid (SGF) or simulated intestinal fluid (SIF) rather than water. SGF (non-diluted) of the present invention is made by combining 1 g/L Triton X-100 and 2 g/L NaCl in water and adjusting the pH with 20 mM HCl to obtain a solution with a final pH=1.7 (SIF is 0.68% monobasic potassium phosphate, 1% pancreatin, and sodium hydroxide where the pH of the final solution is 7.5). The pH of the solvent used may also be specified as 1, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, or 12, or any pH in between successive values.

Examples of embodiments includes: co-crystal compositions with an aqueous solubility, at 37 degrees C and a pH of 7.0, that is increased at least 5 fold over the reference form, co-crystal compositions with a solubility in SGF that is increased at least 5 fold over the reference form, co-crystal compositions with a solubility in SIF that is increased at least 5 fold over the reference form.

Dissolution Modulation

In another aspect of the present invention, the dissolution profile of the API is modulated whereby the aqueous dissolution rate or the dissolution rate in simulated gastric fluid or in simulated intestinal fluid, or in a solvent or plurality of solvents is increased. Dissolution rate is the rate at which API solids dissolve in a dissolution medium. For APIs whose absorption rates are faster than the dissolution rates (e.g., steroids), the rate-limiting step in the absorption process is often the dissolution rate. Because of a limited residence time at the absorption site, APIs that are not dissolved before they are removed from intestinal absorption site are considered useless. Therefore, the rate of dissolution has a major impact on the performance of APIs that are poorly soluble. Because of this factor, the dissolution rate of APIs in solid dosage forms is an important, routine, quality control parameter used in the API manufacturing process.

Dissolution rate = $K S (C_1-C)$

where K is dissolution rate constant, S is the surface area, C, is the apparent solubility, and C is the concentration of API in the dissolution medium.

For rapid API absorption, C_s-C is approximately equal to C_s

The dissolution rate of APIs may be measured by conventional means known in the art.

The increase in the dissolution rate of a co-crystal, as compared to the reference form (e.g., free form or salt), may be specified, such as by 10, 20, 30, 40, 50, 60, 70, 80, 90, or 100%, or by 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 25, 30, 40, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400, 500, 1000, 10,000, or 100,000 fold greater than the reference form (e.g., free form or salt form) in the same solution. Conditions under which the dissolution rate is measured is the same as discussed above The increase in dissolution may be further specified by the time the composition remains supersaturated before reaching equilibrium solubility.

Examples of above embodiments include: co-crystal compositions with a dissolution rate in aqueous solution, at 37 degrees C and a pH of 7.0, that is increased at least 5 fold over the reference form, co-crystal compositions with a dissolution rate in SGF that is increased at least 5 fold over the reference form, co-crystal compositions with a dissolution rate in SIF that is increased at least 5 fold over the reference form.

Bioavailability Modulation

The methods of the present invention are used to make a pharmaceutical API formulation with greater solubility, dissolution, and bioavailability. Bioavailability can be improved via an increase in AUC, reduced time to T_{max} , (the time to reach peak blood serum levels), or increased C_{max} . The present invention can result in higher plasma concentrations of API when compared to the neutral form or salt alone (reference form).

AUC is the area under the plot of plasma concentration of API (not logarithm of the concentration) against time after API administration. The area is conveniently determined by the "trapezoidal rule": The data points are connected by straight line segments, perpendiculars are erected from the abscissa to each data point, and the sum

of the areas of the triangles and trapezoids so constructed is computed. When the last measured concentration (C_n , at time t_n) is not zero, the AUC from t_n to infinite time is estimated by C_n/k_{el} .

The AUC is of particular use in estimating bioavailability of APIs, and in estimating total clearance of APIs (Cl_T). Following single intravenous doses, AUC = D/Cl_T , for single compartment systems obeying first-order elimination kinetics, where D is the dose; alternatively, AUC = C_0/k_{el} , where k_{el} is the API elimination rate constant. With routes other than the intravenous, for such systems, AUC = $F \cdot D/Cl_T$, where F is the absolute bioavailability of the API.

Thus, in a further aspect, the present invention provides a process for modulating the bioavailability of an API when administered in its normal and effective dose range as a co-crystal, whereby the AUC is increased, the time to T_{max} is reduced, or C_{max} is increased, as compared to a reference form, which process comprises:

- (1) grinding, heating or contacting in solution the API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound; and
- (2) isolating co-crystals comprising the API and the co-crystal forming compound.

Examples of the above embodiments include: co-crystal compositions with a time to T_{max} that is reduced by at least 10% as compared to the reference form, co-crystal compositions with a time to T_{max} that is reduced by at least 20% over the reference form, co-crystal compositions with a time to T_{max} that is reduced by at least 40% over the reference form, co-crystal compositions with a time to T_{max} that is reduced by at least 50% over the reference form, co-crystal compositions with a T_{max} that is reduced by at least 60% over the reference form, co-crystal compositions with a T_{max} that is reduced by at least 70% over the reference form, co-crystal compositions with a T_{max} that is reduced by at least 80% over the reference form, co-crystal compositions with a T_{max} that is reduced by at least 90% over the reference form, co-crystal compositions with a C_{max} that is increased by at least 20% over the reference form, co-crystal compositions with a C_{max} that is increased by at least 30% over the reference form, co-crystal compositions with a C_{max} that is increased by at least 40% over the reference form, co-crystal compositions with a C_{max} that is increased by at least 40% over the reference form, co-crystal compositions with a C_{max} that is increased by at least 50% over the reference form, co-crystal compositions with a C_{max} that is increased by at least 50% over the reference form, co-crystal compositions with a C_{max} that is increased by at least 50% over the reference form, co-crystal compositions with a C_{max} that is

increased by at least 60% over the reference form, co-crystal compositions with a C_{max} that is increased by at least 70% over the reference form, co-crystal compositions with a C_{max} that is increased by at least 80% over the reference form, co-crystal compositions with a Cmax that is increased by at least 2 fold, 3 fold, 5 fold, 7.5 fold, 10 fold, 25 fold, 50 fold or 100 fold, co-crystal compositions with an AUC that is increased by at least 10% over the reference form, co-crystal compositions with an AUC that is increased by at least 20% over the reference form, co-crystal compositions with an AUC that is increased by at least 30% over the reference form, co-crystal compositions with an AUC that is increased by at least 40% over the reference form, co-crystal compositions with an AUC that is increased by at least 50% over the reference form, co-crystal compositions with an AUC that is increased by at least 60% over the reference form, co-crystal compositions with an AUC that is increased by at least 70% over the reference form, co-crystal compositions with an AUC that is increased by at least 80% over the reference form or co-crystal compositions with an AUC that is increased by at least 2 fold, 3 fold, 4 fold, 5 fold, 6 fold, 7 fold, 8 fold, 9 fold, or 10 fold. Other examples include wherein the reference form is crystalline, wherein the reference form is amorphous, wherein the reference form is an anhydrous crystalline sodium salt, or wherein the reference form is an anhydrous crystalline HCl salt.

Dose Response Modulation

In a further aspect the present invention provides a process for improving the dose response of an API, which process comprises:

- (1) contacting in solution an API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound; and
- (2) isolating co-crystals comprising the API and the co-crystal forming compound.

Dose response is the quantitative relationship between the magnitude of response and the dose inducing the response and may be measured by conventional means known in the art. The curve relating effect (as the dependent variable) to dose (as the independent variable) for an API-cell system is the "dose-response curve". Typically, the dose-response curve is the measured response to an API plotted against

the dose of the API (mg/kg) given. The dose response curve can also be a curve of AUC against the dose of the API given.

In an embodiment of the present invention, a co-crystal of the present invention has an increased dose response curve or a more linear dose response curve than the corresponding reference compound.

Increased Stability

In a still further aspect the present invention provides a process for improving the stability of an API (as compared to a reference form such as its free form or a salt thereof), which process comprises:

- (1) grinding, heating or contacting in solution the pharmaceutical salt with a cocrystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound; and
- (2) isolating co-crystals comprising the API and the co-crystal forming compound.

In a preferred embodiment, the compositions of the present invention. including the API or active pharmaceutical ingredient (API) and formulations comprising the API, are suitably stable for pharmaceutical use. Preferably, the API or formulations thereof of the present invention are stable such that when stored at 30 degrees C for 2 years, less than 0.2 % of any one degradant is formed. The term degradant refers herein to product(s) of a single type of chemical reaction. For example, if a hydrolysis event occurs that cleaves a molecule into two products, for the purpose of the present invention, it would be considered a single degradant. More preferably, when stored at 40 degrees C for 2 years, less than 0.2 % of any one degradant is formed. Alternatively, when stored at 30 degrees C for 3 months, less than 0.2% or 0.15 %, or 0.1 % of any one degradant is formed, or when stored at 40 degrees C for 3 months, less than 0.2 % or 0.15 %, or 0.1 % of any one degradant is formed. Further alternatively, when stored at 60 degrees C for 4 weeks, less than 0.2 % or 0.15 %, or 0.1 % of any one degradant is formed. The relative humidity (RH) may be specified as ambient (RH), 75 % (RH), or as any single integer between 1 to 99 %.

Difficult to Salt or Unsaltable Compounds

In a still further aspect the present invention provides a process for making co-crystals of unsaltable or difficult to salt APIs which process comprises:

- (1) grinding, heating or contacting in solution an API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound; and
- (2) isolating co-crystals comprising the API and the co-crystal forming compound.

Difficult to salt compounds include bases with a pKa < 3 or acids with a pKa > 10. Zwitter ions are also difficult to salt or unsaltable compounds according to the present invention.

Decreasing Hygroscopicity

In a still further aspect, the present invention provides a method for decreasing the hygroscopicity of an API, which method comprises:

- (1) grinding, heating or contacting in solution the API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound; and
- (2) isolating co-crystals comprising the API and the co-crystal forming compound.

An aspect of the present invention provides a pharmaceutical composition comprising a co-crystal of an API that is less hygroscopic than amorphous or crystalline, free form or salt (including metal salts such as sodium, potassium, lithium, calcium, magnesium) or another reference compound. Hygroscopicity can be assessed by dynamic vapor sorption analysis, in which 5-50 mg of the compound is suspended from a Cahn microbalance. The compound being analyzed should be placed in a non-hygroscopic pan and its weight should be measured relative to an empty pan composed of identical material and having nearly identical size, shape, and weight. Ideally, platinum pans should be used. The pans should be suspended in a chamber through which a gas, such as air or nitrogen, having a controlled and known percent relative humidity (%RH) is flowed until eqilibrium criteria are met. Typical equilibrium criteria include weight changes of less than 0.01 % over 3 minutes at

constant humidity and temperature. The relative humidity should be measured for samples dried under dry nitrogen to constant weight (<0.01 % change in 3 minutes) at 40 degrees C unless doing so would de-solvate or otherwise convert the material to an amorphous compound. In one aspect, the hygroscopicity of a dried compound can be assessed by increasing the RH from 5 to 95 % in increments of 5 % RH and then decreasing the RH from 95 to 5 % in 5 % increments to generate a moisture sorption isotherm. The sample weight should be allowed to equilibrate between each change in % RH. If the compound deliquesces or becomes amorphous above 75 % RH, but below 95 % RH, the experiment should be repeated with a fresh sample and the relative humidity range for the cycling should be narrowed to 5-75 % RH or 10-75 % RH, instead of 5-95 %RH. If the sample cannot be dried prior to testing due to lack of form stability, than the sample should be studied using two complete humidity cycles of either 10-75 % RH or 5-95 % RH, and the results of the second cycle should be used if there is significant weight loss at the end of the first cycle.

Hygroscopicity can be defined using various parameters. For purposes of the present invention, a non-hygroscopic molecule should not gain or lose more than 1.0 %, or more preferably, 0.5 % weight at 25 degrees C when cycled between 10 and 75 % RH (relative humidity at 25 degrees C). The non-hygroscopic molecule more preferably should not gain or lose more than 1.0 %, or more preferably, 0.5 % weight when cycled between 5 and 95 % RH at 25 degrees C, or more than 0.25 % of its weight between 10 and 75 % RH. Most preferably, a non-hygroscopic molecule will not gain or lose more than 0.25 % of its weight when cycled between 5 and 95 % RH.

Alternatively, for purposes of the present invention, hygroscopicity can be defined using the parameters of Callaghan et al., "Equilibrium moisture content of pharmaceutical excipients", in Api Dev. Ind. Pharm., Vol. 8, pp. 335-369 (1982). Callaghan et al. classified the degree of hygroscopicity into four classes.

Class 1: Non-hygroscopic Essentially no moisture increases occur at

relative humidities below 90 %.

Class 2: Slightly hygroscopic Essentially no moisture increases occur at

relative humidities below 80%.

Class 3: Moderately hygroscopic Moisture content does not increase more than 5

% after storage for 1 week at relative humidities

below 60 %.

Class 4: Very hygroscopic Moisture content increase may occur at relative

humidities as low as 40 to 50 %.

Alternatively, for purposes of the present invention, hygroscopicity can be defined using the parameters of the European Pharmacopoeia Technical Guide (1999, p. 86) which has defined hygrospocity, based on the static method, after storage at 25 degrees C for 24 hours at 80 % RH:

Slightly hygroscopic: Increase in mass is less than 2 percent m/m and equal to or greater than 0.2 percent m/m.

Hygroscopic: Increase in mass is less than 15 percent m/m and equal to or greater than 0.2 percent m/m.

Very Hygroscopic: Increase in mass is equal to or greater than 15 percent m/m.

Deliquescent: Sufficient water is absorbed to form a liquid.

Co-crystals of the present invention can be set forth as being in Class 1, Class 2, or Class 3, or as being Slightly hygroscopic, Hygroscopic, or Very Hygroscopic. Co-crystals of the present invention can also be set forth based on their ability to reduce hygroscopicity. Thus, preferred co-crystals of the present invention are less hygroscopic than a reference compound. The reference compound can be specified as the API in free form (free acid, free base, hydrate, solvate, etc.) or salt (e.g., especially metal salts such as sodium, potassium, lithium, calcium, or magnesium). Further included in the present invention are co-crystals that do not gain or lose more than 1.0 % weight at 25 degrees C when cycled between 10 and 75 % RH, wherein the reference compound gains or loses more than 1.0 % weight under the same conditions. Further included in the present invention are co-crystals that do not gain

or lose more than 0.5 % weight at 25 degrees C when cycled between 10 and 75 % RH, wherein the reference compound gains or loses more than 0.5 % or more than 1.0 % weight under the same conditions. Further included in the present invention are co-crystals that do not gain or lose more than 1.0 % weight at 25 degrees C when cycled between 5 and 95 % RH, wherein the reference compound gains or loses more than 1.0 % weight under the same conditions. Further included in the present invention are co-crystals that do not gain or lose more than 0.5 % weight at 25 degrees C when cycled between 5 and 95 % RH, wherein the reference compound gains or loses more than 0.5 % or more than 1.0 % weight under the same conditions. Further included in the present invention are co-crystals that do not gain or lose more than 0.25 % weight at 25 degrees C when cycled between 5 and 95 % RH, wherein the reference compound gains or loses more than 0.5 % or more than 1.0 % weight under the same conditions.

Further included in the present invention are co-crystals that have a hygroscopicity (according to Callaghan et al.) that is at least one class lower than the reference compound or at least two classes lower than the reference compound. Included are a Class 1 co-crystal of a Class 2 reference compound, a Class 2 co-crystal of a Class 3 reference compound, a Class 4 reference compound, a Class 1 co-crystal of a Class 3 reference compound, a Class 1 co-crystal of a Class 4 reference compound.

Further included in the present invention are co-crystals that have a hygroscopicity (according to the European Pharmacopoeia Technical Guide) that is at least one class lower than the reference compound or at least two classes lower than the reference compound. Non-limiting examples include; a slightly hygroscopic co-crystal of a hygroscopic reference compound, a hygroscopic co-crystal of a very hygroscopic reference compound, a very hygroscopic co-crystal of a deliquescent reference compound, a slightly hygroscopic co-crystal of a very hygroscopic reference compound, a slightly hygroscopic co-crystal of a deliquescent reference compound, and a hygroscopic co-crystal of a deliquescent reference compound.

Crystallizing Amorphous Compounds

In a further aspect, the present invention provides a process for crystallizing an amorphous compound, which process comprises:

- (1) grinding, heating or contacting in solution the API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound; and
- (2) isolating co-crystals comprising the API and the co-crystal forming compound.

An amorphous compound includes compounds that do not crystallize using routine methods in the art.

Decreasing Form Diversity

In a still further embodiment aspect the present invention provides a process for reducing the form diversity of an API, which process comprises:

- (1) grinding, heating or contacting in solution the API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound; and
- (2) isolating co-crystals comprising the API and the co-crystal forming compound.

For purposes of the present invention, the number of forms of a co-crystal is compared to the number of forms of a reference compound (e.g. the free form or a salt of the API) that can be made using routine methods in the art.

Morphology Modulation

In a still further aspect the present invention provides a process for modifying the morphology of an API, which process comprises:

- (1) grinding, heating or contacting in solution the API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound; and
- (2) isolating co-crystals comprising the API and the co-crystal forming compound.

In an embodiment the co-crystal comprises or consists of a co-crystal former and a pharmaceutical wherein the interaction between the two, e.g., H-bonding, occurs between a functional group of Table III of an API with a corresponding interacting group of Table III. In a further embodiment, the co-crystal comprises a co-crystal former of Table I or II and an API with a corresponding interacting group of Table III. In a further embodiment the co-crystal comprises an API from Table IV and a co-crystal former with a functional group of Table III. In a further embodiment, the co-crystal is from Table I or II. In an aspect of the invention, only co-crystals having an H-bond acceptor on the first molecule and an H-bond donor on the second molecule, where the first and second molecules are either co-crystal former and API respectively or API and co-crystal former respectively, are included in the present invention. Table IV includes the CAS number, chemical name or a PCT or patent reference (each incorporated herein in their entireties). Thus, whether a particular API contains an H-bond donor, acceptor or both is readily apparent.

In another embodiment, the co-crystal former and API each have only one H-bond donor/acceptor. In another aspect, the molecular weight of the API is less than 2000, 1500, 1000, 750, 500, 350, 200, or 150 Daltons. In another embodiment, the molecular weight of the API is between 100-200, 200-300, 300-400, 400-500, 500-600, 600-700, 700-800, 800-900, 900-1000, 1000-1200, 1200-1400, 1400-1600, 1600-1800, or 1800-2000. APIs with the above molecular weights may also be specifically excluded from the present invention.

In another embodiment, peptides, proteins, nucleic acids or other biological APIs are excluded from the present invention. In another embodiment, all nonpharmaceutically acceptable co-crystal formers are excluded from the present invention. In another embodiment, organometalic APIs are excluded from the present invention. In another embodiment, a co-crystal former comprising any one or more of the functional groups of Table III may be specifically excluded from the present invention. In another embodiment, any one or more of the co-crystal formers of Table I or II may be specifically excluded from the present invention. Any APIs currently known in the art may also be specifically excluded from the present invention. For example, carbanazepine, itraconazole, nabumetone, fluoxetine, acetaminophen and theophylline can each be specifically excluded from the present invention. In another embodiment, the API is not a salt, is not a non-metal salt, or is not a metal salt, e.g., sodium, potassium, lithium, calcium or magnesium. In another embodiment, the API is a salt, is a non-metal salt, or is a metal salt, e.g., sodium, potassium, lithium, calcium, magnesium. In one embodiment, the API does not contain a halogen. In one embodiment, the API does contain a halogen.

In another embodiment, any one or more of the APIs of Table IV may be specifically excluded from the present invention. Any APIs currently known in the art may also be specifically excluded from the present invention. For example, nabumetone:2,3-naphthalenediol, fluoxetine HCl:benzoic acid, fluoxetine HCl:succinic acid, acetaminophen:piperazine, acetaminophen:theophylline, theophylline:salicylic acid, theophylline:p-hydroxybenzoic acid, theophylline:sorbic acid, theophylline: 1-hydroxy-2-naphthoic acid, theophylline:glycolic acid, theophylline:2,5-dihydroxybenzoic acid, theophylline:chloroacetic acid, bis(diphenylhydantoin):9-ethyladenine acetylacetone solvate, bis(diphenylhydantoin):9-ethyladenine 2,4-pentanedione solvate, 5,5diphenylbarbituric acid:9-ethyladenine, bis(diphenylhydantoin):9-ethyladenine, 4aminobenzoic acid:4-aminobenzonitrile, sulfadimidine:salicylic acid, 8hydroxyquinolinium 4-nitrobenzoate:4-nitrobenzoic acid, sulfaproxyline:caffeine, retro-inverso-isopropyl (2R,3S)-4-cyclohexyl-2-hydroxy-3-(N-((2R)-2morpholinocarbonylmethyl-3-(1-naphthyl)propionyl)-Lhistidylamino)butyrate:cinnamic acid monohydrate, benzoic acid:isonicotinamide, 3-(2-N', N'-(dimethylhydrazino)-4-thiazolylmethylthio)-N''sulfamoylpropionamidine:maleic acid, diglycine hydrochloride (C₂H₅NO₂:C₂H₆NO₂[†]Cl⁻), octadecanoic acid:3-pyridinecarboxamide, cis-N-(3methyl-1-(2-(1,2,3,4-tetrahydro)naphthyl)-piperidin-4-yl)-N-phenylpropanamide hydrochloride:oxalic acid, trans-N-(3-methyl-1-(2-(1,2,3,4-tetrahydro)naphthyl)piperidin-4-ylium)-N-phenylpropanamide oxalate:oxalic acid dihydrate, bis(1-(3-((4-(2-isopropoxyphenyl)-1-piperazinyl)methyl)benzoyl)piperidine) succinate:succinic acid, bis(p-cyanophenyl)imidazolylmethane:succinic acid, cis-1-((4-(1imidazolylmethyl)cyclohexyl)methyl)imidazole:succinic acid, (+)-2-(5,6-dimethoxy-1,2,3,4-tetrahydro-1-naphthyl)imidazoline:(+)-dibenzoyl-D-tartaric acid, raclopride:tartaric acid, 2,6-diamino-9-ethylpurine:5,5-diethylbarbituric acid, 5,5diethylbarbituric acid:bis(2-aminopyridine), 5,5-diethylbarbituric acid:acetamide, 5,5diethylbarbituric acid:KI₃, 5,5-diethylbarbituric acid:urea, bis(barbital):hexamethylphosphoramide, 5,5-diethylbarbituric acid:imidazole, barbital: 1-methylimidazole, 5,5-diethylbarbituric acid:N-methyl-2-pyridone, 2,4diamino-5-(3,4,5-trimethoxybenzyl)-pyrimidine:5,5-diethylbarbituric acid, bis(barbital):caffeine, bis(barbital):1-methylimidazole, bis(betacyclodextrin):bis(barbital) hydrate, tetrakis(beta-cyclodextrin):tetrakis(barbital), 9ethyladenine:5,5-diethylbarbituric acid, barbital:N'-(p-cyanophenyl)-N-(piodophenyl)melamine, barbital:2-amino-4-(m-bromophenylamino)-6-chloro-1.3.5triazine, 5,5-diethylbarbituric acid:N,N'-diphenylmelamine, 5,5-diethylbarbituric acid:N,N'-bis(p-chlorophenyl)melamine, N,N'-bis(p-bromophenyl)melamine:5,5diethylbarbituric acid, 5,5-diethylbarbituric acid:N,N'-bis(p-iodophenyl)melamine. 5,5-diethylbarbituric acid:N,N'-bis(p-tolyl)melamine, 5,5-diethylbarbituric acid:N,N'bis(m-tolyl)melamine, 5,5-diethylbarbituric acid:N,N'-bis(m-chlorophenyl)melamine, N,N'-Bis(m-methylphenyl)melamine:barbital, N,N'-bis(mchlorophenyl)melamine:barbital tetrahydrofuran solvate, 5,5-diethylbarbituric acid:N,N'-bis(t-butyl)melamine, 5,5-diethylbarbituric acid:N,N'-di(t-butyl)melamine, 6,6'-diquinolyl ether:5,5-diethylbarbituric acid, 5-t-butyl-2,4,6triaminopyrimidine: diethylbarbituric acid, N,N'-bis(4carboxymethylphenyl)melamine:barbital ethanol solvate, N,N'-bis(4-tbutylphenyl)melamine:barbital, tris(5,17-N,N'-bis(4-amino-6-(butylamino)-1,3,5triazin-2-yl)diamino-11,23-dinitro-25,26,27,28tetrapropoxycalix(4)arene):hexakis(diethylbarbituric acid) toluene solvate, N,N'bis(m-fluorophenyl)melamine:barbital, N,N'-bis(m-bromophenyl)melamine:barbital acetone solvate, N,N'-bis(m-iodophenyl)melamine:barbital acetonitrile solvate, N,N'bis(m-trifluoromethylphenyl)melamine:barbital acetonitrile solvate. aminopyrine:barbital, N,N'-bis(4-fluorophenyl)melamine:barbital, N,N'-bis(4trifluoromethylphenyl)melamine:barbital, 2,4-diamino-5-(3,4,5trimethoxybenzyl)pyrimidine:barbital, hydroxybutyrate:hydroxyvalerate, 2aminopyrimidine:succinic acid, 1,3-bis(((6-methylpyrid-2yl)amino)carbonyl)benzene:glutaric acid, 5-t-butyl-2,4,6triaminopyrimidine:diethylbarbituric acid, bis(dithiobiuret-S,S')nickel(II):diuracil, platinum 3,3'-dihydroxymethyl-2,2'-bipyridine dichloride: AgF₃CSO₃, 4,4'bipyridyl:isophthalic acid, 4,4'-bipyridyl:1,4-naphthalenedicarboxylic acid, 4,4'bipyridyl:1,3,5-cyclohexane-tricarboxylic acid, 4,4'-bipyridyl:tricaballylic acid, urotropin:azelaic acid, insulin:C8-HI (octanoyl-Ne-LysB29-human insulin), isonicotinamide:cinnamic acid, isonicotinamide:3-hydroxybenzoic acid, isonicotinamide: 3-N,N-dimethylaminobenzoic acid, isonicotinamide: 3.5bis(trifluoromethyl)-benzoic acid, isonicotinamide:d,l-mandelic acid, isonicotinamide:chloroacetic acid, isonicotinamide:fumaric acid monoethyl ester, isonicotinamide:12-bromododecanoic acid, isonicotinamide:fumaric acid.

isonicotinamide: succinic acid, isonicotinamide: 4-ketopimelic acid, isonicotinamide:thiodiglycolic acid, 1,3,5-cyclohexane-tricarboxylic acid:hexamethyltetramine, 1,3,5-cyclohexane-tricarboxylic acid:4,7-phenanthroline, 4,7-phenanthroline:oxalic acid, 4,7-phenanthroline:terephthalic acid, 4.7phenanthroline: 1,3,5-cyclohexane-tricarboxylic acid, 4,7-phenanthroline: 1,4naphthalenedicarboxylic acid, pyrazine:methanoic acid, pyrazine:ethanoic acid, pyrazine:propanoic acid, pyrazine:butanoic acid, pyrazine:pentanoic acid, pyrazine:hexanoic acid, pyrazine:heptanoic acid, pyrazine:octanoic acid, pyrazine:nonanoic acid, pyrazine:decanoic acid, diammine-(deoxy-quanyl-quanyl-N⁷,N⁷)-platinum:tris(glycine) hydrate, 2-aminopyrimidine:p-phenylenediacetic acid, bis(2-aminopyrimidin-1-ium)fumarate:fumaric acid, 2-aminopyrimidine:indole-3acetic acid, 2-aminopyrimidine: N-methylpyrrole-2-carboxylic acid, 2aminopyrimidine:thiophen-2-carboxylic acid, 2-aminopyrimidine:(+)-camphoric acid, 2,4,6-Trinitrobenzoic acid: 2-aminopyrimidine, 2-aminopyrimidine:4-aminobenzoic acid, 2-aminopyrimidine:bis(phenoxyacetic acid), 2-aminopyrimidine:(2,4dichlorophenoxy)acetic acid, 2-aminopyrimidine:(3,4-dichlorophenoxy)acetic acid, 2aminopyrimidine:indole-2-carboxylic acid, 2-aminopyrimidine:terephthalic acid, 2aminopyrimidine:bis(2-nitrobenzoic acid), 2-aminopyrimidine:bis(2-aminobenzoic acid), 2-aminopyrimidine:3-aminobenzoic acid, 2-hexeneoic acid:isonicotinamide, 4nitrobenzoic acid:isonicotinamide, 3,5-dinitrobenzoic acid:isonicotinamide:4methylbenzoic acid, 2-amino-5-nitropyrimidine:2-amino-3-nitropyridine, 3,5dinitrobenzoic acid:4-chlorobenzamide, 3-dimethylaminobenzoic acid4chlorobenzamide, fumaric acid:4-chlorobenzamide, oxine:4-nitrobenzoic acid. oxine:3,5-dinitrobenzoic acid, oxine:3,5-dinitrosalicylic acid, 3-[2-(N',N'dimethylhydrazino)-4-thiazolylmethylthio]-N²-sulfamoylpropionamidine:maleic acid, 5-fluorouracil:9-ethylhypoxanthine, 5-fluorouracil:cytosine dihydrate, 5fluorouracil:theophylline monohydrate, stearic acid:nicotinamide, cis-1-{[4-(1imidazolylmethyl)cyclohexyl]methyl}imidazole:succinic acid, CGS18320B:succinic acid, sulfaproxyline:caffeine, 4-aminobenzoic acid:4-aminobenzonitrile, 3,5dinitrobenzoic acid:isonicotinamide:3-methylbenzoic acid, 3,5-dinitrobenzoic acid:isonicotinamide:4-(dimethylamino)benzoic acid, 3,5-dinitrobenzoic acid:isonicotinamide:4-hydroxy-3-methoxycinnamic acid, isonicotinamide:oxalic acid, isonicotinamide:malonic acid, isonicotinamide:succinic acid, isonicotinamide:glutaric acid, isonicotinamide:adipic acid, benzoic

acid:isonicotinamide, mazapertine:succinate, betaine:dichloronitrophenol, betainepyridine:dichloronitrophenol, betainepyridine:pentachlorophenol, 4-{2-[1-(2-hydroxyethyl)-4-pyridylidene]-ethylidene}-cyclo-hexa-2,5-dien-1-one:methyl 2,4-dihydroxybenzoate, 4-{2-[1-(2-hydroxyethyl)-4-pyridylidene]-ethylidene}-cyclo-hexa-2,5-dien-1-one:2,4-dihydroxypropiophenone, 4-{2-[1-(2-hydroxyethyl)-4-pyridylidene]-ethylidene}-cyclo-hexa-2,5-dien-1-one:2,4-dihydroxyacetophenone, squaric acid:4,4'-dipyridylacetylene, squaric acid:1,2-bis(4-pyridyl)ethylene, chloranilic acid:1,4-bis[(4-pyridyl)ethynyl]benzene, 4,4'-bipyridine:phthalic acid, 4,4'-dipyridylacetylene:phthalic acid, bis(pentamethylcyclopentadienyl)iron:bromanilic acid, bis(pentamethylcyclopentadienyl)iron:chloranilic acid, bis(pentamethylcyclopentadienyl)iron:cyananilic acid, pyrazinotetrathiafulvalene:chloranilic acid, phenol:pentafluorophenol, co-crystals of itraconazole, and co-crystals of topiramate are specifically excluded from the present invention.

Excipients employed in pharmaceutical compositions of the present invention can be solids, semi-solids, liquids or combinations thereof. Preferably, excipients are solids. Compositions of the invention containing excipients can be prepared by any known technique of pharmacy that comprises admixing an excipient with an API or therapeutic agent. A pharmaceutical composition of the invention contains a desired amount of API per dose unit and, if intended for oral administration, can be in the form, for example, of a tablet, a caplet, a pill, a hard or soft capsule, a lozenge, a cachet, a dispensable powder, granules, a suspension, an elixir, a dispersion, a liquid, or any other form reasonably adapted for such administration. If intended for parenteral administration, it can be in the form, for example, of a suspension or transdermal patch. If intended for rectal administration, it can be in the form, for example, of a suppository. Presently preferred are oral dosage forms that are discrete dose units each containing a predetermined amount of the API, such as tablets or capsules.

In another embodiment, APIs with an inappropriate pH for transdermal patches can be co-crystallized with an appropriate co-crystal former, thereby adjusting its pH to an appropriate level for use as a transdermal patch. In another embodiment, an APIs pH level can be optimized for use in a transdermal patch via co-crystallization with an appropriate co-crystal former.

Non-limiting examples follow of excipients that can be used to prepare pharmaceutical compositions of the invention.

Pharmaceutical compositions of the invention optionally comprise one or more pharmaceutically acceptable carriers or diluents as excipients. Suitable carriers or diluents illustratively include, but are not limited to, either individually or in combination, lactose, including anhydrous lactose and lactose monohydrate; starches, including directly compressible starch and hydrolyzed starches (e.g., CelutabTM and EmdexTM); mannitol; sorbitol; xylitol; dextrose (e.g., CereloseTM 2000) and dextrose monohydrate; dibasic calcium phosphate dihydrate; sucrose-based diluents; confectioner's sugar; monobasic calcium sulfate monohydrate; calcium sulfate dihydrate; granular calcium lactate trihydrate; dextrates; inositol; hydrolyzed cereal solids; amylose; celluloses including microcrystalline cellulose, food grade sources of alpha- and amorphous cellulose (e.g., Rexcell), powdered cellulose, hydroxypropylcellulose (HPC) and hydroxypropylmethylcellulose (HPMC); calcium carbonate; glycine; bentonite; block co-polymers; polyvinylpyrrolidone; and the like. Such carriers or diluents, if present, constitute in total about 5% to about 99%. preferably about 10% to about 85%, and more preferably about 20% to about 80%, of the total weight of the composition. The carrier, carriers, diluent, or diluents selected preferably exhibit suitable flow properties and, where tablets are desired, compressibility.

Lactose, mannitol, dibasic sodium phosphate, and microcrystalline cellulose (particularly Avicel PH microcrystalline cellulose such as Avicel PH 101), either individually or in combination, are preferred diluents. These diluents are chemically compatible with many co-crystals described herein. The use of extragranular microcrystalline cellulose (that is, microcrystalline cellulose added to a granulated composition) can be used to improve hardness (for tablets) and/or disintegration time. Lactose, especially lactose monohydrate, is particularly preferred. Lactose typically provides compositions having suitable release rates of co-crystals, stability, precompression flowability, and/or drying properties at a relatively low diluent cost. It provides a high density substrate that aids densification during granulation (where wet granulation is employed) and therefore improves blend flow properties and tablet properties.

Pharmaceutical compositions of the invention optionally comprise one or more pharmaceutically acceptable disintegrants as excipients, particularly for tablet

formulations. Suitable disintegrants include, but are not limited to, either individually or in combination, starches, including sodium starch glycolate (e.g., ExplotabTM of PenWest) and pregelatinized corn starches (e.g., NationalTM 1551 of National Starch and Chemical Company, NationalTM 1550, and ColorconTM 1500), clays (e.g., VeegumTM HV of R.T. Vanderbilt), celluloses such as purified cellulose, microcrystalline cellulose, methylcellulose, carboxymethylcellulose and sodium carboxymethylcellulose, croscarmellose sodium (e.g., Ac-Di-SolTM of FMC), alginates, crospovidone, and gums such as agar, guar, locust bean, karaya, pectin and tragacanth gums.

Disintegrants may be added at any suitable step during the preparation of the composition, particularly prior to granulation or during a lubrication step prior to compression. Such disintegrants, if present, constitute in total about 0.2% to about 30%, preferably about 0.2% to about 10%, and more preferably about 0.2% to about 5%, of the total weight of the composition.

Croscarmellose sodium is a preferred disintegrant for tablet or capsule disintegration, and, if present, preferably constitutes about 0.2% to about 10%, more preferably about 0.2% to about 7%, and still more preferably about 0.2% to about 5%, of the total weight of the composition. Croscarmellose sodium confers superior intragranular disintegration capabilities to granulated pharmaceutical compositions of the present invention.

Pharmaceutical compositions of the invention optionally comprise one or more pharmaceutically acceptable binding agents or adhesives as excipients, particularly for tablet formulations. Such binding agents and adhesives preferably impart sufficient cohesion to the powder being tableted to allow for normal processing operations such as sizing, lubrication, compression and packaging, but still allow the tablet to disintegrate and the composition to be absorbed upon ingestion. Such binding agents may also prevent or inhibit crystallization or recrystallization of a co-crsytal of the present invention once the salt has been dissolved in a solution. Suitable binding agents and adhesives include, but are not limited to, either individually or in combination, acacia; tragacanth; sucrose; gelatin; glucose; starches such as, but not limited to, pregelatinized starches (e.g., NationalTM 1511 and NationalTM 1500); celluloses such as, but not limited to, methylcellulose and carmellose sodium (e.g., TyloseTM); alginic acid and salts of alginic acid; magnesium aluminum silicate; PEG; guar gum; polysaccharide acids; bentonites; povidone, for example povidone K-15,

K-30 and K-29/32; polymethacrylates; HPMC; hydroxypropylcellulose (e.g., KlucelTM of Aqualon); and ethylcellulose (e.g., EthocelTM of the Dow Chemical Company). Such binding agents and/or adhesives, if present, constitute in total about 0.5% to about 25%, preferably about 0.75% to about 15%, and more preferably about 1% to about 10%, of the total weight of the pharmaceutical composition.

Many of the binding agents are polymers comprising amide, ester, ether, alcohol or ketone groups and, as such, are preferably included in pharmaceutical compositions of the present invention. Polyvinylpyrrolidones such as povidone K-30 are especially preferred. Polymeric binding agents can have varying molecular weight, degrees of crosslinking, and grades of polymer. Polymeric binding agents can also be copolymers, such as block co-polymers that contain mixtures of ethylene oxide and propylene oxide units. Variation in these units' ratios in a given polymer affects properties and performance. Examples of block co-polymers with varying compositions of block units are Poloxamer 188 and Poloxamer 237 (BASF Corporation).

Pharmaceutical compositions of the invention optionally comprise one or more pharmaceutically acceptable wetting agents as excipients. Such wetting agents are preferably selected to maintain the co-crystal in close association with water, a condition that is believed to improve bioavailability of the composition. Such wetting agents can also be useful in solubilizing or increasing the solubility of co-crystals.

Non-limiting examples of surfactants that can be used as wetting agents in pharmaceutical compositions of the invention include quaternary ammonium compounds, for example benzalkonium chloride, benzethonium chloride and cetylpyridinium chloride, dioctyl sodium sulfosuccinate, polyoxyethylene alkylphenyl ethers, for example nonoxynol 9, nonoxynol 10, and degrees Ctoxynol 9, poloxamers (polyoxyethylene and polyoxypropylene block copolymers), polyoxyethylene fatty acid glycerides and oils, for example polyoxyethylene (8) caprylic/capric mono- and diglycerides (e.g., LabrasolTM of Gattefosse), polyoxyethylene (35) castor oil and polyoxyethylene (40) hydrogenated castor oil; polyoxyethylene alkyl ethers, for example polyoxyethylene (20) cetostearyl ether, polyoxyethylene fatty acid esters, for example polyoxyethylene (40) stearate, polyoxyethylene sorbitan esters, for example polysorbate 20 and polysorbate 80 (e.g., TweenTM 80 of ICI), propylene glycol fatty acid esters, for example propylene glycol laurate (e.g., LauroglycolTM of Gattefosse), sodium lauryl sulfate, fatty acids and salts thereof, for example oleic acid, sodium

oleate and triethanolamine oleate, glyceryl fatty acid esters, for example glyceryl monostearate, sorbitan esters, for example sorbitan monolaurate, sorbitan monooleate, sorbitan monopalmitate and sorbitan monostearate, tyloxapol, and mixtures thereof. Such wetting agents, if present, constitute in total about 0.25% to about 15%, preferably about 0.4% to about 10%, and more preferably about 0.5% to about 5%, of the total weight of the pharmaceutical composition.

Wetting agents that are anionic surfactants are preferred. Sodium lauryl sulfate is a particularly preferred wetting agent. Sodium lauryl sulfate, if present, constitutes about 0.25% to about 7%, more preferably about 0.4% to about 4%, and still more preferably about 0.5% to about 2%, of the total weight of the pharmaceutical composition.

Pharmaceutical compositions of the invention optionally comprise one or more pharmaceutically acceptable lubricants (including anti-adherents and/or glidants) as excipients. Suitable lubricants include, but are not limited to, either individually or in combination, glyceryl behapate (e.g., CompritolTM 888 of Gattefosse); stearic acid and salts thereof, including magnesium, calcium and sodium stearates; hydrogenated vegetable oils (e.g., SterotexTM of Abitec); colloidal silica; talc; waxes; boric acid; sodium benzoate; sodium acetate; sodium fumarate; sodium chloride; DL-leucine; PEG (e.g., CarbowaxTM 4000 and CarbowaxTM 6000 of the Dow Chemical Company); sodium oleate; sodium lauryl sulfate; and magnesium lauryl sulfate. Such lubricants, if present, constitute in total about 0. 1% to about 10%, preferably about 0.2% to about 8%, and more preferably about 0.25% to about 5%, of the total weight of the pharmaceutical composition.

Magnesium stearate is a preferred lubricant used, for example, to reduce friction between the equipment and granulated mixture during compression of tablet formulations.

Suitable anti-adherents include, but are not limited to, talc, cornstarch, DL-leucine, sodium lauryl sulfate and metallic stearates. Talc is a preferred anti-adherent or glidant used, for example, to reduce formulation sticking to equipment surfaces and also to reduce static in the blend. Talc, if present, constitutes about 0.1% to about 10%, more preferably about 0.25% to about 5%, and still more preferably about 0.5% to about 2%, of the total weight of the pharmaceutical composition.

Glidants can be used to promote powder flow of a solid formulation. Suitable glidants include, but are not limited to, colloidal silicon dioxide, starch, talc, tribasic

calcium phosphate, powdered cellulose and magnesium trisilicate. Colloidal silicon dioxide is particularly preferred.

Other excipients such as colorants, flavors and sweeteners are known in the pharmaceutical art and can be used in pharmaceutical compositions of the present invention. Tablets can be coated, for example with an enteric coating, or uncoated. Compositions of the invention can further comprise, for example, buffering agents.

Optionally, one or more effervescent agents can be used as disintegrants and/or to enhance organoleptic properties of pharmaceutical compositions of the invention. When present in pharmaceutical compositions of the invention to promote dosage form disintegration, one or more effervescent agents are preferably present in a total amount of about 30% to about 75%, and preferably about 45% to about 70%, for example about 60%, by weight of the pharmaceutical composition.

According to a particularly preferred embodiment of the invention, an effervescent agent, present in a solid dosage form in an amount less than that effective to promote disintegration of the dosage form, provides improved dispersion of the API in an aqueous medium. Without being bound by theory, it is believed that the effervescent agent is effective to accelerate dispersion of the API from the dosage form in the gastrointestinal tract, thereby further enhancing absorption and rapid onset of therapeutic effect. When present in a pharmaceutical composition of the invention to promote intragastrointestinal dispersion but not to enhance disintegration, an effervescent agent is preferably present in an amount of about 1% to about 20%, more preferably about 2.5% to about 15%, and still more preferably about 5% to about 10%, by weight of the pharmaceutical composition.

An "effervescent agent" herein is an agent comprising one or more compounds which, acting together or individually, evolve a gas on contact with water. The gas evolved is generally oxygen or, most commonly, carbon dioxide. Preferred effervescent agents comprise an acid and a base that react in the presence of water to generate carbon dioxide gas. Preferably, the base comprises an alkali metal or alkaline earth metal carbonate or bicarbonate and the acid comprises an aliphatic carboxylic acid.

Non-limiting examples of suitable bases as components of effervescent agents useful in the invention include carbonate salts (e.g., calcium carbonate), bicarbonate salts (e.g., sodium bicarbonate), sesquicarbonate salts, and mixtures thereof. Calcium carbonate is a preferred base.

Non-limiting examples of suitable acids as components of effervescent agents and/or solid organic acids useful in the invention include citric acid, tartaric acid (as D-, L-, or D/L-tartaric acid), malic acid (as D-, L-, or DL-malic acid), maleic acid, fumaric acid, adipic acid, succinic acid, acid anhydrides of such acids, acid salts of such acids, and mixtures thereof. Citric acid is a preferred acid.

In a preferred embodiment of the invention, where the effervescent agent comprises an acid and a base, the weight ratio of the acid to the base is about 1:100 to about 100:1, more preferably about 1:50 to about 50:1, and still more preferably about 1:10 to about 10:1. In a further preferred embodiment of the invention, where the effervescent agent comprises an acid and a base, the ratio of the acid to the base is approximately stoichiometric.

Excipients which solubilize APIs typically have both hydrophilic and hydrophobic regions, or are preferably amphiphilic or have amphiphilic regions. One type of amphiphilic or partially-amphiphilic excipient comprises an amphiphilic polymer or is an amphiphilic polymer. A specific amphiphilic polymer is a polyalkylene glycol, which is commonly comprised of ethylene glycol and/or propylene glycol subunits. Such polyalkylene glycols can be esterified at their termini by a carboxylic acid, ester, acid anhyride or other suitable moiety. Examples of such excipients include poloxamers (symmetric block copolymers of ethylene glycol and propylene glycol; e.g., poloxamer 237), polyalkyene glycolated esters of tocopherol (including esters formed from a di- or multi-functional carboxylic acid; e.g., d-alpha-tocopherol polyethylene glycol-1000 succinate), and macrogolglycerides (formed by alcoholysis of an oil and esterification of a polyalkylene glycol to produce a mixture of mono-, di- and tri-glycerides and mono- and di-esters; e.g., stearoyl macrogol-32 glycerides). Such pharmaceutical compositions are advantageously administered orally.

Pharmaceutical compositions of the present invention can comprise about 10 % to about 50 %, about 25 % to about 50 %, about 30 % to about 45 %, or about 30 % to about 35 % by weight of a co-crystal; about 10 % to about 50 %, about 25 % to about 50 %, about 30 % to about 45 %, or about 30 % to about 35 % by weight of an excipient which inhibits crystallization in aqueous solution, in simulated gastric fluid, or in simulated intestinal fluid; and about 5 % to about 50 %, about 10 % to about 40 %, about 15 % to about 35 %, or about 30 % to about 35 % by weight of a binding

agent. In one example, the weight ratio of the co-crystal to the excipient which inhibits crystallization to binding agent is about 1 to 1 to 1.

Solid dosage forms of the invention can be prepared by any suitable process, not limited to processes described herein.

An illustrative process comprises (a) a step of blending an API of the invention with one or more excipients to form a blend, and (b) a step of tableting or encapsulating the blend to form tablets or capsules, respectively.

In a preferred process, solid dosage forms are prepared by a process comprising (a) a step of blending a co-crystal of the invention with one or more excipients to form a blend, (b) a step of granulating the blend to form a granulate, and (c) a step of tableting or encapsulating the blend to form tablets or capsules respectively. Step (b) can be accomplished by any dry or wet granulation technique known in the art, but is preferably a dry granulation step. A salt of the present invention is advantageously granulated to form particles of about 1 micrometer to about 100 micrometer, about 5 micrometer to about 50 micrometer, or about 10 micrometer to about 25 micrometer. One or more diluents, one or more disintegrants and one or more binding agents are preferably added, for example in the blending step, a wetting agent can optionally be added, for example in the granulating step, and one or more disintegrants are preferably added after granulating but before tableting or encapsulating. A lubricant is preferably added before tableting. Blending and granulating can be performed independently under low or high shear. A process is preferably selected that forms a granulate that is uniform in API content, that readily disintegrates, that flows with sufficient ease so that weight variation can be reliably controlled during capsule filling or tableting, and that is dense enough in bulk so that a batch can be processed in the selected equipment and individual doses fit into the specified capsules or tablet dies.

In an alternative embodiment, solid dosage forms are prepared by a process that includes a spray drying step, wherein an API is suspended with one or more excipients in one or more sprayable liquids, preferably a non-protic (e.g., non-aqueous or non-alcoholic) sprayable liquid, and then is rapidly spray dried over a current of warm air.

A granulate or spray dried powder resulting from any of the above illustrative processes can be compressed or molded to prepare tablets or encapsulated to prepare capsules. Conventional tableting and encapsulation techniques known in the art can

be employed. Where coated tablets are desired, conventional coating techniques are suitable.

Excipients for tablet compositions of the invention are preferably selected to provide a disintegration time of less than about 30 minutes, preferably about 25 minutes or less, more preferably about 20 minutes or less, and still more preferably about 15 minutes or less, in a standard disintegration assay.

Pharmaceutically acceptable co-crystals can be administered by controlled- or delayed-release means. Controlled-release pharmaceutical products have a common goal of improving drug therapy over that achieved by their non-controlled release counterparts. Ideally, the use of an optimally designed controlled-release preparation in medical treatment is characterized by a minimum of drug substance being employed to cure or control the condition in a minimum amount of time. Advantages of controlled-release formulations include: 1) extended activity of the drug; 2) reduced dosage frequency; 3) increased patient compliance; 4) usage of less total drug; 5) reduction in local or systemic side effects; 6) minimization of drug accumulation; 7) reduction in blood level fluctuations; 8) improvement in efficacy of treatment; 9) reduction of potentiation or loss of drug activity; and 10) improvement in speed of control of diseases or conditions. Kim, Cherng-ju, Controlled Release Dosage Form Design, 2 (Technomic Publishing, Lancaster, Pa.: 2000).

Conventional dosage forms generally provide rapid or immediate drug release from the formulation. Depending on the pharmacology and pharmacokinetics of the drug, use of conventional dosage forms can lead to wide fluctuations in the concentrations of the drug in a patient's blood and other tissues. These fluctuations can impact a number of parameters, such as dose frequency, onset of action, duration of efficacy, maintenance of therapeutic blood levels, toxicity, side effects, and the like. Advantageously, controlled-release formulations can be used to control a drug's onset of action, duration of action, plasma levels within the therapeutic window, and peak blood levels. In particular, controlled- or extended-release dosage forms or formulations can be used to ensure that the maximum effectiveness of a drug is achieved while minimizing potential adverse effects and safety concerns, which can occur both from under dosing a drug (i.e., going below the minimum therapeutic levels) as well as exceeding the toxicity level for the drug.

Most controlled-release formulations are designed to initially release an amount of drug (active ingredient) that promptly produces the desired therapeutic

effect, and gradually and continually release other amounts of drug to maintain this level of therapeutic or prophylactic effect over an extended period of time. In order to maintain this constant level of drug in the body, the drug must be released from the dosage form at a rate that will replace the amount of drug being metabolized and excreted from the body. Controlled-release of an active ingredient can be stimulated by various conditions including, but not limited to, pH, ionic strength, osmotic pressure, temperature, enzymes, water, and other physiological conditions or compounds.

A variety of known controlled- or extended-release dosage forms, formulations, and devices can be adapted for use with the co-crystals and compositions of the invention. Examples include, but are not limited to, those described in U.S. Pat. Nos.: 3,845,770; 3,916,899; 3,536,809; 3,598,123; 4,008,719; 5,674,533; 5,059,595; 5,591,767; 5,120,548; 5,073,543; 5,639,476; 5,354,556; 5,733,566; and 6,365,185 B1; each of which is incorporated herein by reference. These dosage forms can be used to provide slow or controlled-release of one or more active ingredients using, for example, hydroxypropylmethyl cellulose, other polymer matrices, gels, permeable membranes, osmotic systems (such as OROS® (Alza Corporation, Mountain View, Calif. USA)), multilayer coatings, microparticles, liposomes, or microspheres or a combination thereof to provide the desired release profile in varying proportions. Additionally, ion exchange materials can be used to prepare immobilized, adsorbed co-crystals and thus effect controlled delivery of the drug. Examples of specific anion exchangers include, but are not limited to, Duolite® A568 and Duolite® AP143 (Rohm & Haas, Spring House, PA. USA).

One embodiment of the invention encompasses a unit dosage form which comprises a pharmaceutically acceptable co-crystal, or a solvate, hydrate, dehydrate, anhydrous, or amorphous form thereof, and one or more pharmaceutically acceptable excipients or diluents, wherein the pharmaceutical composition or dosage form is formulated for controlled-release. Specific dosage forms utilize an osmotic drug delivery system.

A particular and well-known osmotic drug delivery system is referred to as OROS® (Alza Corporation, Mountain View, Calif. USA). This technology can readily be adapted for the delivery of compounds and compositions of the invention. Various aspects of the technology are disclosed in U.S. Pat. Nos. 6,375,978 B1;

6,368,626 B1; 6,342,249 B1; 6,333,050 B2; 6,287,295 B1; 6,283,953 B1; 6,270,787 B1; 6,245,357 B1; and 6,132,420; each of which is incorporated herein by reference. Specific adaptations of OROS® that can be used to administer compounds and compositions of the invention include, but are not limited to, the OROS® Push-PullTM, Delayed Push-PullTM, Multi-Layer Push-PullTM, and Push-StickTM Systems, all of which are well known. See, e.g., http://www.alza.com. Additional OROS® systems that can be used for the controlled oral delivery of compounds and compositions of the invention include OROS®-CT and L-OROS®. Id.; see also, Delivery Times, vol. II, issue II (Alza Corporation).

Conventional OROS® oral dosage forms are made by compressing a drug powder (e.g. co-crystal) into a hard tablet, coating the tablet with cellulose derivatives to form a semi-permeable membrane, and then drilling an orifice in the coating (e.g., with a laser). Kim, Cherng-ju, Controlled Release Dosage Form Design, 231-238 (Technomic Publishing, Lancaster, Pa.: 2000). The advantage of such dosage forms is that the delivery rate of the drug is not influenced by physiological or experimental conditions. Even a drug with a pH-dependent solubility can be delivered at a constant rate regardless of the pH of the delivery medium. But because these advantages are provided by a build-up of osmotic pressure within the dosage form after administration, conventional OROS® drug delivery systems cannot be used to effectively deliver drugs with low water solubility. Id. at 234. Because co-crystals of this invention can be far more soluble in water than the API itself, they are well suited for osmotic-based delivery to patients. This invention does, however, encompass the incorporation of conventional crystalline API (e.g. pure API without co-crystal former), and non-salt isomers and isomeric mixtures thereof, into OROS® dosage forms.

A specific dosage form of the invention comprises: a wall defining a cavity, the wall having an exit orifice formed or formable therein and at least a portion of the wall being semipermeable; an expandable layer located within the cavity remote from the exit orifice and in fluid communication with the semipermeable portion of the wall; a dry or substantially dry state drug layer located within the cavity adjacent to the exit orifice and in direct or indirect contacting relationship with the expandable layer; and a flow-promoting layer interposed between the inner surface of the wall and at least the external surface of the drug layer located within the cavity, wherein

the drug layer comprises a co-crystal, or a solvate, hydrate, dehydrate, anhydrous, or amorphous form thereof. See U.S. Pat. No. 6,368,626, the entirety of which is incorporated herein by reference.

Another specific dosage form of the invention comprises: a wall defining a cavity, the wall having an exit orifice formed or formable therein and at least a portion of the wall being semipermeable; an expandable layer located within the cavity remote from the exit orifice and in fluid communication with the semipermeable portion of the wall; a drug layer located within the cavity adjacent the exit orifice and in direct or indirect contacting relationship with the expandable layer; the drug layer comprising a liquid, active agent formulation absorbed in porous particles, the porous particles being adapted to resist compaction forces sufficient to form a compacted drug layer without significant exudation of the liquid, active agent formulation, the dosage form optionally having a placebo layer between the exit orifice and the drug layer, wherein the active agent formulation comprises a co-crystal, or a solvate, hydrate, dehydrate, anhydrous, or amorphous form thereof. See U.S. Pat. No. 6,342,249, the entirety of which is incorporated herein by reference.

The invention will now be described in further detail, by way of example, with reference to the accompanying drawings.

EXEMPLIFICATION

General Methods for the Preparation of Co-Crystals

a) High Throughput crystallization using the CrystalMax platform

CrystalMaxTM comprises a sequence of automated, integrated high throughput robotic stations capable of rapid generation, identification and characterization of polymorphs, salts, and co-crystals of APIs and API candidates. Worksheet generation and combinatorial mixture design is carried out using proprietary design software InFormTM. Typically, an API or an API candidate is dispensed from an organic solvent into tubes and dried under a stream of nitrogen. Salts and/or co-crystal formers may also be dispensed and dried in the same fashion. Water and organic solvents may be combinatorially dispensed into the tubes using a multi-channel dispenser. Each tube in a 96-tube array is then sealed within 15 seconds of combinatorial dispensing to avoid solvent evaporation. The mixtures are then

rendered supersaturated by heating to 70 degrees C for 2 hours followed by a 1 degree C/minute cooling ramp to 5 degrees C. Optical checks are then conducted to detect crystals and/or solid material. Once a solid has been identified in a tube, it is isolated through aspiration and drying. Raman spectra are then obtained on the solids and cluster classification of the spectral patterns is performed using proprietary software (QFormTM).

b) Crystallization from solution

Co-crystals may be obtained by dissolving the separate components in a solvent and adding one to the other. The co-crystal may then precipitate or crystallize as the solvent mixture is evaporated slowly. The co-crystal may also be obtained by dissolving the two components in the same solvent or a mixture of solvents.

c) Crystallization from the melt

A co-crystal may be obtained by melting the two components together and allowing recrystallization to occur. In some cases, an anti-solvent may be added to facilitate crystallization.

d) Thermal microscopy

A co-crystal may be obtained by melting the higher melting component on a glass slide and allowing it to recrystallize. The second component is then melted and is also allowed to recrystallize. The co-crystal may form as a separated phase/band in between the eutectic bands of the two original components.

e) Mixing and/or grinding

A co-crystal may be obtained by mixing or grinding two components together in the solid state.

Analytical Methods

Procedure for DSC analysis

DSC analysis of the samples was performed using a Q1000 Differential Scanning Calorimeter (TA Instruments, New Castle, DE, U.S.A.), which uses Advantage for QW-Series, version 1.0.0.78, Thermal Advantage Release 2.0 (82001 TA Instruments-Water LLC). In addition, the analysis software used was Universal Analysis 2000 for Windows 95/95/2000/NT, version 3.1E;Build 3.1.0.40 (82001 TA Instruments-Water LLC).

For the DSC analysis, the purge gas used was dry nitrogen, the reference material was an empty aluminum pan that was crimped, and the sample purge was 50 mL/minute.

DSC analysis of the sample was performed by placing ≤ 2 mg of sample in an aluminum pan with a crimped pan closure. The starting temperature was typically 20 degrees C with a heating rate of 10 degrees C/minute, and the ending temperature was 300 degrees C. Unless otherwise indicated, all reported transitions are as stated +/-1.0 degrees C.

Procedure for TGA analysis

TGA analysis of samples was performed using a Q500 Thermogravimetric Analyzer (TA Instruments, New Castle, DE, U.S.A.), which uses Advantage for QW-Series, version 1.0.0.78, Thermal Advantage Release 2.0 (82001 TA Instruments-Water LLC). In addition, the analysis software used was Universal Analysis 2000 for Windows 95/95/2000/NT, version 3.1E;Build 3.1.0.40 (82001 TA Instruments-Water LLC).

For all of the TGA experiments, the purge gas used was dry nitrogen, the balance purge was 40 mL/minute N₂, and the sample purge was 60 mL/minute N₂.

TGA of the sample was performed by placing $\leq 2\,$ mg of sample in a platinum pan. The starting temperature was typically 20 degrees C with a heating rate of 10 degrees C/minute, and the ending temperature was 300 degrees C.

Procedure for PXRD analysis

A powder X-ray diffraction pattern for the samples was obtained using a D/Max Rapid, Contact (Rigaku/MSC, The Woodlands, TX, U.S.A.), which uses as its control software RINT Rapid Control software, Rigaku Rapid/XRD, version 1.0.0 (81999 Rigaku Co.). In addition, the analysis software used were RINT Rapid display software, version 1.18 (Rigaku/MSC), and JADE XRD Pattern Processing, versions 5.0 and 6.0 (81995-2002, Materials Data, Inc.).

For the PXRD analysis, the acquisition parameters were as follows: source was Cu with a K line at 1.5406Å; x-y stage was manual; collimator size was 0.3 or 0.8 mm; capillary tube (Charles Supper Company, Natick, MA, U.S.A.) was 0.3 mm ID; reflection mode was used; the power to the X-ray tube was 46 kV; the current to the X-ray tube was 40 mA; the omega-axis was oscillating in a range of 0-5 degrees at a speed of 1 degree/minute; the phi-axis was spinning at an angle of 360 degrees at a speed of 2 degrees/second; 0.3 or 0.8 mm collimator; the collection time was 60 minutes; the temperature was room temperature; and the heater was not used. The sample was presented to the X-ray source in a boron rich glass capillary.

In addition, the analysis parameters were as follows: the integration 2-theta range was 2-40 or 60 degrees; the integration chi range was 0-360 degrees; the number of chi segments was 1; the step size used was 0.02; the integration utility was cylint; normalization was used; dark counts were 8; omega offset was 180; and chi and phi offsets were 0.

The relative intensity of peaks in a diffractogram is not necessarily a limitation of the PXRD pattern because peak intensity can vary from sample to sample, e.g., due to crystalline impurities. Further, the angles of each peak can vary by about +/- 0.1 degrees, preferably +/-0.05. The entire pattern or most of the pattern peaks may also shift by about +/- 0.1 degree due to differences in calibration, settings, and other variations from instrument to instrument and from operator to operator.

Procedure for Raman Acquisition, Filtering and Binning

Acquisition

The sample was either left in the glass vial in which it was processed or an aliquot of the sample was transferred to a glass slide. The glass vial or slide was positioned in the sample chamber. The measurement was made using an AlmegaTM Dispersive Raman (AlmegaTM Dispersive Raman, Thermo-Nicolet, 5225 Verona Road, Madison, WI 53711-4495) system fitted with a 785nm laser source. The sample was manually brought into focus using the microscope portion of the apparatus with a 10x power objective (unless otherwise noted), thus directing the laser onto the surface of the sample. The spectrum was acquired using the parameters outlined in Table A.

(Exposure times and number of exposures may vary; changes to parameters will be indicated for each acquisition.)

Filtering and Binning

Each spectrum in a set was filtered using a matched filter of feature size 25 to remove background signals, including glass contributions and sample fluorescence. This is particularly important as large background signal or fluorescence limit the ability to accurately pick and assign peak positions in the subsequent steps of the binning process. Filtered spectra were binned using the peak pick and bin algorithm with the parameters given in Table B. The sorted cluster diagrams for each sample set and the corresponding cluster assignments for each spectral file were used to identify groups of samples with similar spectra, which was used to identify samples for secondary analyses.

Table A. Raman Spectral acquisition parameters

Parameter	Setting Used
Exposure time (s)	2.0
Number of exposures	10
Laser source wavelength (nm)	785
Laser power (%)	100
Aperture shape	pin hole
Aperture size (um)	100
Spectral range	104-3428
Grating position	Single
Temperature at acquisition (degrees C)	24.0

Table B. Raman Filtering and Binning Parameters

Parameter	Setting Used
Filtering Parameters	
Filter type	Matched
Filter size	25
QC Parameters	
Peak Height Threshold	1000
Region for noise test (cm ⁻¹)	0-10000
RMS noise threshold	10000
Automatically eliminate failed spectra	Yes
Region of Interest	
Include (cm ⁻¹)	104-3428

Exclude region I (cm ⁻¹)	
Exclude region II (cm ⁻¹)	
Exclude region III (cm ⁻¹)	
Exclude region IV (cm ⁻¹)	
Peak Pick Parameters	
Peak Pick Sensitivity	Variable
Peak Pick Threshold	100
Peak Comparison Parameters	
Peak Window (cm ⁻¹)	2
Analysis Parameters	
Number of clusters	Variable

Procedure for Single Crystal X-Ray Diffraction

Single crystal x-ray data were collected on a Bruker SMART-APEX CCD diffractometer (M. J. Zawarotko, Department of Chemistry, University of South Florida). Lattice parameters were determined from least squares analysis. Reflection data was integrated using the program SAINT. The structure was solved by direct methods and refined by full matrix least squares using the program SHELXTL (Sheldrick, G. M. SHELXTL, Release 5.03; Siemans Analytical X-ray Instruments Inc.: Madison, WI).

The co-crystals of the present invention can be characterized, e.g., by the TGA or DSC data or by any one, any two, any three, any four, any five, any six, any seven, any eight, any nine, any ten, or any single integer number of PXRD 2-theta angle peaks or Raman shift peaks listed herein or disclosed in a figure, or by single crystal x-ray diffraction data.

Example 1

1:1 carbamazepine:saccharin co-crystals (Form I) were prepared. A 12-block experiment was designed with 12 solvents. 1152 crystallization experiments were carried out using the CMAX platform. The co-crystal was obtained from a mixture of isopropyl acetate and heptane. Detailed characterization of the co-crystal is listed in Table V. (See Figs. 1 and 2)

Example 2

1:1 carbamazepine:nicotinamide co-crystals (Form I) were prepared. A 12-block experiment was designed with 12 solvents. 1152 crystallization experiments were carried out using the CMAX platform. The co-crystal was obtained from samples containing toluene, acetone, or isopropyl acetate. Detailed characterization of the co-crystal is listed in Table V. (See Figs. 3 and 4)

Example 3

1:1 carbamazepine:trimesic acid co-crystals (Form I) were prepared. A 9-block experiment was designed with 10 solvents. 864 crystallization experiments with 8 co-crystal formers and 3 concentrations were carried out using the CMAX platform. The co-crystal was obtained from samples containing methanol. Detailed characterization of the co-crystal is listed in Table V. (See Fig. 5)

Example 4

1:1 celecoxib:nicotinamide co-crystals were prepared. Celecoxib (100 mg, 0.26 mmol) and nicotinamide (32.0 mg, 0.26 mmol) were each dissolved in acetone (2 mL). The two solutions were mixed and the resulting mixture was allowed to evaporate slowly overnight. The precipitated solid was collected and characterized. Detailed characterization of the co-crystal is listed in Table V.

Example 5

Co-crystals of topiramate and 18-crown-6 were prepared. An equimolar amount of topiramate and 18-crown-6 were dissolved in ether separately. The solution containing topiramate was then added to the solution containing 18-crown-6. A white solid precipitated after minor agitation and was collected and dried. Detailed characterization of the co-crystal is listed in Table V. (See Figs. 6 and 7)

Example 6

Co-crystals of olanzapine and nicotinamide (Form I and II) were prepared. A 9-block experiment was designed with 12 solvents. 864 crystallization experiments with 10 co-crystal formers and 3 concentrations were carried out using the CMAX platform. The co-crystal was obtained from tubes containing isopropyl acetate. PXRD and

DSC characterization of the co-crystal (Form I and II) is listed in Table V. (See Figs. 8, 9, and 30)

Example 7

Co-crystals of celecoxib and 18-crown-6 were prepared. A solution of celecoxib (157.8 mg, 0.4138 mmol) in Et₂O (10.0 mL) was added to 18-crown-6 (118.1 mg, 0.447 mmol). The opaque solid dissolves immediately and a white solid subsequently began to crystallize very rapidly. The solid was collected via filtration and was washed with additional Et₂O (5 mL). Detailed characterization of the co-crystal is listed in Table V. (See Figs. 10 and 11)

Example 8

Co-crystals of itraconazole and succinic acid were prepared. Approximately 51.1 mg of cis-itraconazole free base, 0.75 mL of THF, and a magnetic stir bar were charged into a screw cap vial, heated to reflux to dissolve, and then the vial was closed with the screw cap and placed on top of a hot plate maintained at a temperature between 60 and 75 degrees C. A solution of 77.7 mg of succinic acid in 1.58 mL of THF was prepared. 0.20 mL of the succinic acid solution was added to the cis-itraconazole solution and the solution remained clear. 0.75 mL of iso-propylacetate was added and the solution was seeded with <1 mg of the L-tartaric acid co-crystal salt from Example 10 below. The heat was turned off and the sample crystallized as it cooled to room temperature. The cooled sample was suction filtered. It was rinsed with 0.2-0.3 mL of THF. The filter cake was broken-up and allowed to air-dry for 1 hour prior to analysis. (See Figs. 12 and 13)

Example 9

Co-crystals of itraconazole and fumaric acid were prepared. Approximately 500 mg of cis-itraconazole free base was placed in a 50 mL screw top bottle along with 33.33 mL of tetrahydrofuran (THF). 3.0887 mL of fumaric acid stock solution (prepared in Example 1) was then added to the beaker (resulting in a 1.05:1 ratio of salt former to free base). The cap was screwed on to seal the bottle and the bottle was placed in a 70 degrees C oven (Model # 1400E, VWR Scientific) and heated for approximately 1 hour. Thereafter, the bottle was removed from the oven, the cap from the bottle was removed, and the sample was allowed to evaporate under flowing

air under ambient conditions. When all but about 5 mL of the solvent had evaporated, the remaining solvent was removed by decantation and the solid was isolated by filtering over a Whatman filter using suction. This solid was returned back into the 50 mL bottle with the remaining solid and the bottle was placed into the vacuum oven at approximately 25 mm Hg and the solid was allowed to dry for 4 days prior to analysis. (See Figs. 14 and 15)

Example 10

Co-crystals of itraconazole and tartaric acid were prepared. Approximately 100.4 mg of cis-itraconazole free base, 0.90 mL of THF, and a magnetic stir bar were charged into a screw cap vial, heated to reflux to dissolve, and then the vial was closed with the screw cap and placed in an oil bath maintained at 70 degrees C. A solution of 138.5 mg of L(+) tartaric acid in 1.15 mL of THF was prepared. 0.21 mL of the L(+)tartaric acid solution was added to the cis-itraconazole solution and the solution remained clear. 0.90 mL of iso-propylacetate was added and the solution was seeded with <1 mg of the salt from a preparation of DL-tartaric acid co-crystal. The sample was allowed to crystallize over about 5 minutes in the 70 degrees C oil bath before it was removed and allowed to cool to room temperature. The cooled sample was suction filtered. It was rinsed with 0.2-0.3 mL of THF. The filter cake was broken-up and allowed to air-dry for 4 hours prior to analysis. (See Figs. 16 and 17)

Example 11

Co-crystals of itraconazole and malic acid were prepared. To prepare the L-malic acid co-crystal salt of cis-itraconazole, 100.4 mg of cis-itraconazole free base, 0.50 mL of THF, and a magnetic stir bar were charged into a screw cap vial. A solution of 191.3 mg of L(-)malic acid in 5.0 mL of THF was prepared. 0.50 mL of the L-malic acid solution was added to the vial containing cis-itraconazole and the solution was heated with a heat gun to dissolve. The solution was allowed to cool and was then seeded with <1 mg of the salt from cis-itraconazole-L-tartaric acid co-crystal. The cooled crystals were filtered in a centrifuge filter tube. The filter cake was broken-up and allowed to air-dry prior to analysis. (See Figs. 18 and 19)

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Example 12

Co-crystals of itraconazole HCl and tartaric acid were prepared. Approximately 212.7mg of L-tartaric acid and 118 microL of 37% HCl were dissolved in 25 mL of hot dioxane. This solution was added to 1.0 g of cis-itraconazole dissolved in 50 mL of hot dioxane with stirring. The mixture was heated until a clear solution formed and was then allowed to cool to room temperature. Upon cooling, 50 mL tert-butyl methyl ether was added and the crystals were harvested by vacuum filtration on a Buchner funnel with #4 Whatman filter paper. The crystals were washed 3 times with 5 mL aliquots of cold tert-butyl methyl ether and left to air dry. Approximately 573 mg of a crystalline form of cis-itraconazole HCl-tartaric acid (1:1:0.5) co-crystal were obtained. (See Figs. 20 and 21)

Example 13

Co-crystals of modafinil and malonic acid were prepared. Using a 250 mg/ml modafinil-acetic acid solution, malonic acid was dissolved on a hotplate (about 67 degrees C) at a 1:2 modafinil to malonic acid ratio. The mixture was dried under flowing nitrogen overnight. A powdery white solid was produced. After further drying for 1 day, acetic acid is removed (as determined by TGA) and the crystal structure, as determined by PXRD, remains the same. (See Fig. 22)

Example 14

Co-crystals of modafinil and benzamide were prepared. Modafinil (1 mg, 0.0037mmol) and benzamide (0.45 mg, 0.0037 mmol) were dissolved in 1,2-dichloroethane (400 microL). The solution was allowed to evaporate to dryness and the resulting solid was characterized using PXRD. PXRD data for the co-crystal is listed in Table V. (See Fig. 23)

Example 15

Co-crystals of modafinil and mandelic acid were prepared. Modafinil (1 mg, 0.0037mmol) and mandelic acid (0.55 mg, 0.0037 mmol) were dissolved in acetone (400 microL). The solution was allowed to evaporate to dryness and the resulting

solid was characterized using PXRD. PXRD data for the co-crystal is listed in Table V. (See Fig. 24)

Example 16

Co-crystals of modafinil and glycolic acid were prepared. Modafinil (1 mg, 0.0037mmol) and glycolic acid (0.30 mg, 0.0037 mmol) were dissolved in acetone (400 microL). The solution was allowed to evaporate to dryness and the resulting solid was characterized using PXRD. PXRD data for the co-crystal is listed in Table V. (See Fig. 25)

Example 17

Co-crystals of modafinil and fumaric acid were prepared. Modafinil (1 mg, 0.0037mmol) and fumaric acid (0.42 mg, 0.0037 mmol) were dissolved in 1,2-dichloroethane (400 microL). The solution was allowed to evaporate to dryness and the resulting solid was characterized using PXRD. PXRD data for the co-crystal is listed in Table V. (See Fig. 26)

Example 18

Co-crystals of modafinil and maleic acid were prepared. Using a 250 mg/ml modafinil-acetic acid solution, maleic acid was dissolved on a hotplate (about 67 degrees C) at a 2:1 modafinil to maleic ratio. The mixture was dried under flowing nitrogen overnight. A clear amorphous material remained. Solids began to grow after 2 days stored in a sealed vial at room temperature. (See Fig. 43)

Example 19

Co-crystals of olanzapine and nicotinamide (Form III) were prepared. Olanzapine (40 μ L of 25 mg/mL stock solution in tetrahydrofuran) and nicotinamide (37.6 μ L of 20 mg/mL stock solution in methanol) were added to a glass vial and dried under a flow of nitrogen. To the solid mixture was added isopropyl acetate (100 μ L) and the vial was sealed with an aluminum cap. The suspension was then heated at 70 degrees C for two hours in order to dissolve all of the solid material. The solution was then cooled to 5 degrees C and maintained at that temperature for 24 hours. After 24 hours the vial was uncapped and the mixture was concentrated to 50 μ L of total volume. The vial was then resealed with an aluminum cap and was maintained at 5 degrees C

for an additional 24 hours. Large, yellow plates were observed and were collected (Form III). The solid was characterized with single crystal x-ray diffraction and powder x-ray diffraction. PXRD characterization of the co-crystal is listed in Table V. (See Fig. 31 and 32A-D)

Single crystal x-ray analysis reveals that the olanzapine:nicotinamide (Form III) co-crystal is made up of a ternary system containing olanzapine, nicotinamide, water and isopropyl acetate in the unit cell. The co-crystal crystallizes in the monoclinic space group P2₁/c and contains one olanzapine, one nicotinamide, 4 waters and one isopropyl acetate solvate in the asymmetric unit. The packing diagram is made up of a two-dimensional hydrogen-bonded network with the water molecules connecting the olanzapine and nicotinamide moieties. The packing diagram is also comprised of alternating olanzapine and nicotinamide layers connected through hydrogen bonding via the water and isopropyl acetate molecules, as shown in Figure 32B. The olanzapine layer propagates along the b axis at c/4 and 3c/4. The nicotinamide layer propagates along the b axis at c/2. The top of Figure 32C illustrates the nicotinamide superstructure. The nicotinamide molecules form dimers which hydrogen bond to chains of 4 water molecules. The water chains terminate with isopropyl acetate molecules on each side.

Crystal data: $C_{45}H_{64}N_{10}O_7S_2$, M = 921.18, monoclinic P21/c; a = 14.0961(12) Å, b = 12.5984(10) Å, c = 27.219(2) Å, $\alpha = 90^\circ$, $\beta = 97.396(2)^\circ$, $\gamma = 90^\circ$, T = 100(2) K, Z = 4, $D_c = 1.276$ Mg/m³, U = 4793.6(7) ų, $\lambda = 0.71073$ Å; 24952 reflections measured, 8457 unique ($R_{int} = 0.0882$). Final residuals were $R_1 = 0.0676$, w $R_2 = 0.1461$ for $I > 2\sigma(I)$, and $R_1 = 0.1187$, w $R_2 = 0.1687$ for all 8457 data.

Example 20

Co-crystals of 5-fluorouracil and urea were prepared. To 5-fluorouracil (1g, 7.69 mmol) and urea (0.46g, 7.69 mmol) was added methanol (100 mL). The solution was heated at 65 degrees C and sonicated until all the material dissolved. The solution was then cooled to 5 degrees C and maintained at that temperature overnight. After about 3 days a white precipitate was observed and collected. The solid was characterized by DSC, PXRD, Raman spectroscopy, and TGA. Characterization data are listed in Table V. (See Figs. 33-36)

Example 21

Co-crystals of hydrochlorothiazide and nicotinic acid were prepared.

Hydrochlorothiazide (12.2 mg, 0.041 mmol) and nicotinic acid (5 mg, 0.041 mmol) were dissolved in methanol (1 mL). The solution was then cooled to 5 degrees C and maintained at that temperature for 12 hours. A white solid precipitated and was collected and characterized using PXRD. (See Fig. 37)

Example 22

Co-crystals of hydrochlorothiazide and 18-crown-6 were prepared.

Hydrochlorothiazide (100 mg, 0.33 mmol) was dissolved in diethyl ether (15 mL) and was added to a solution of 18-crown-6 (87.2 mg, 0.33 mmol) in diethyl ether (15 mL). A white precipitate immediately began to form and was collected and characterized as the hydrochlorothiazide:18-crown-6 co-crystal using PXRD. (See Fig. 38)

Example 23

Co-crystals of hydrochlorothiazide and piperazine were prepared.

Hydrochlorothiazide (17.3 mg, 0.058 mmol) and piperazine (5 mg, 0.058 mmol) were dissolved in a 1:1 mixture of ethyl acetate and acetonitirle (1 mL). The solution was then cooled to 5 degrees C and maintained at that temperature for 12 hours. A white solid precipitated and was collected and characterized using PXRD. (See Fig. 39)

Example 24

Acetaminophen:4,4'-bipyridine:water (1:1:1 stoichiometry)

50 mg (0.3307 mmol) acetaminophen and 52 mg (0.3329 mmol) 4,4'-bipyridine were dissolved in hot water and allowed to stand. Slow evaporation yielded colorless needles of a 1:1:1 acetaminophen/4,4'-bipyridine/water co-crystal, as shown in Figure 44A-B.

Crystal data: (Bruker SMART-APEX CCD Diffractometer). $C_{36}H_{44}N_2O_4$, M=339.84, triclinic, space group *PI*; a = 7.0534(8), b = 9.5955(12), c = 19.3649(2) Å, α = 86.326(2), β = 80.291(2), γ = 88.880(2)°, U = 1308.1(3) ų, T = 200(2) K, Z = 2, μ (Mo-K α) = 0.090 mm⁻¹, D_c = 1.294 Mg/m³, λ = 0.71073 Å, F(000) = 537, $2\theta_{max}$ = 25.02°; 6289 reflections measured, 4481 unique (R_{int} = 0.0261). Final

residuals for 344 parameters were $R_1 = 0.0751$, $wR_2 = 0.2082$ for $I > 2\sigma(I)$, and $R_1 = 0.1119$, $wR_2 = 0.2377$ for all 4481data.

Crystal packing: The co-crystals contain bilayered sheets in which water molecules act as a hydrogen bonded bridge between the network bipyridine moieties and the acetaminophen. Bipyridine guests are sustained by π - π stacking interactions between two network bipyridines. The layers stack via π - π interactions between the phenyl groups of the acetaminophen moieties.

Differential Scanning Calorimetry: (TA Instruments 2920 DSC), 57.77 degrees C (endotherm); m.p. = 58-60 degrees C (MEL-TEMP); (acetaminophen m.p. = 169 degrees C, 4,4'-bipyridine m.p. = 111-114 degrees C).

Example 25

Phenytoin:Pyridone (1:1 stoichiometry)

28 mg (0.1109 mmol) phenytoin and 11 mg (0.1156 mmol) 4-hydroxypyridone were dissolved in 2 mL acetone and 1 mL ethanol with heating and stirring. Slow evaporation yielded colorless needles of a 1:1 phenytoin/pyridone co-crystal, as shown in Figure 45A-B.

Crystal data: (Bruker SMART-APEX CCD Diffractometer), $C_{20}H_{17}N_3O_3$, M=347.37, monoclinic $P2_1/c$; a=16.6583(19), b=8.8478(10), c=11.9546(14) Å, $\beta=96.618(2)^\circ$, U=1750.2(3) Å³, T=200(2) K, Z=4, $\mu(Mo-K\alpha)=0.091$ mm⁻¹, $D_c=1.318$ Mg/m³, $\lambda=0.71073$ Å, F(000)=728, $2\theta_{max}=56.60^\circ$; 10605 reflections measured, 4154 unique ($R_{int}=0.0313$). Final residuals for 247 parameters were $R_1=0.0560$, w $R_2=0.1356$ for I>2 $\sigma(I)$, and $R_1=0.0816$, w $R_2=0.1559$ for all 4154 data.

Crystal packing: The co-crystal is sustained by hydrogen bonding of adjacent phentoin molecules between the carbonyl and the amine closest to the tetrahedral carbon, and by hydrogen bonding between pyridone carbonyl functionalities and the amine not involved in phenytoin-phenytoin interactions. The pyridone carbonyl also hydrogen bonds with adjacent pyridone molecules forming a one-dimensional network.

Infrared Spectroscopy: (Nicolet Avatar 320 FTIR), characteristic peaks for the co-crystal were identified as: 2° amine found at 3311cm⁻¹, carbonyl (ketone) found at 1711cm⁻¹, olephin peak found at 1390cm⁻¹.

Differential Scanning Calorimetry: (TA Instruments 2920 DSC), 233.39 degrees C (endotherm) and 271.33 degrees C (endotherm); m.p. = 231-233 degrees C (MEL-TEMP); (phenytoin m.p. = 295 degrees C, pyridone m.p. = 148 degrees C).

Thermogravimetric Analysis: (TA Instruments 2950 Hi-Resolution TGA), a 29.09% weight loss starting at 192.80 degrees C, 48.72% weight loss starting at 238.27 degrees C, and 18.38% loss starting at 260.17 degrees C followed by complete decomposition.

Powder x-ray diffraction: (Rigaku Miniflex Diffractometer using Cu K α (λ = 1.540562), 30kV, 15mA). The powder data were collected over an angular range of 3° to 40° 20 in continuous scan mode using a step size of 0.02° 20 and a scan speed of 2.0°/minute. PXRD: Showed analogous peaks to the simulated PXRD derived from the single crystal data. In all cases of recrystallization and solid state reaction, experimental (calculated): 5.2 (5.3); 11.1 (11.3); 15.1 (15.2); 16.2 (16.4); 16.7 (17.0); 17.8 (17.9); 19.4 (19.4); 19.8 (19.7); 20.3 (20.1); 21.2 (21.4); 23.3 (23.7); 26.1 (26.4); 26.4 (26.6); 27.3 (27.6); 29.5 (29.9).

Example 26

Aspirin (acetylsalicylic acid):4,4'-bipyridine (2:1 stoichiometry)

50 mg (0.2775 mmol) aspirin and 22 mg (0.1388 mmol) 4,4'-bipyridine were dissolved in 4 mL hexane. 8 mL ether was added to the solution and allowed to stand for one hour, yielding colorless needles of a 2:1 aspirin/4,4'-bipyridine co-crystal, as shown in Figure 46A-D. Alternatively, aspirin/4,4'-bipyridine (2:1 stoichiometry) can be made by grinding the solid ingredients in a pestle and mortar.

Crystal data: (Bruker SMART-APEX CCD Diffractometer), $C_{28}H_{24}N_2O_8$, M=516.49, orthorhombic *Pbcn*; a=28.831(3), b=11.3861(12), c=8.4144(9) Å, U=2762.2(5) Å³, T=173(2) K, Z=4, $\mu(\text{Mo-K}\alpha)=0.092$ mm⁻¹, $D_c=1.242$ Mg/m³, $\lambda=0.71073$ Å, F(000)=1080, $2\theta_{\text{max}}=25.02^{\circ}$; 12431 reflections measured, 2433 unique ($R_{\text{int}}=0.0419$). Final residuals for 202 parameters were $R_1=0.0419$, w $R_2=0.1358$ for I>2 α (I), and $R_1=0.0541$, w $R_2=0.1482$ for all 2433 data.

Crystal packing: The co-crystal contains the carboxylic acid-pyridine heterodimer that crystallizes in the *Pbcn* space group. The structure is an inclusion compound containing disordered solvent in the channels. In addition to the dominant hydrogen bonding interaction of the heterodimer, π - π stacking of the bipyridine and

phenyl groups of the aspirin and hydrophobic interactions contribute to the overall packing interactions.

Infrared Spectroscopy: (Nicolet Avatar 320 FTIR), characteristic (-COOH) peak at 1679 cm⁻¹ was shifted up and less intense at 1694cm⁻¹, where as the lactone peak is shifted down slightly from 1750cm⁻¹ to 1744cm⁻¹.

Differential Scanning Calorimetry: (TA Instruments 2920 DSC), 95.14 degrees C (endotherm); m.p. = 91-96 degrees C (MEL-TEMP); (aspirin m.p. = 1345 degrees C, 4,4'-bipyridine m.p. = 111-114 degrees C).

Thermogravimetric Analysis: (TA Instruments 2950 Hi-Resolution TGA), weight loss of 9% starting at 22.62 degrees C, 49.06% weight loss starting at 102.97 degrees C followed by complete decomposition starting at 209.37 degrees C.

Example 27

Ibuprofen:4,4'-Bipyridine (2:1 stoichiometry)

50 mg (0.242 mmol) racemic ibuprofen and 18mg (0.0960 mmol) 4,4'-bipyridine were dissolved in 5 mL acetone. Slow evaporation of the solvent yielded colorless needles of a 2:1 ibuprofen/4,4'-bipyridine co-crystal, as shown in Figure 47A-D.

Crystal data: (Bruker SMART-APEX CCD Diffractometer), $C_{36}H_{44}N_2O_4$, M=568.73, triclinic, space group P-I; a=5.759(3), b=11.683(6), c=24.705(11) Å, $\alpha=93.674(11)$, $\beta=90.880(10)$, $\gamma=104.045(7)^\circ$, U=1608.3(13) Å³, T=200(2) K, Z=2, $\mu(\text{Mo-K}\alpha)=0.076$ mm⁻¹, $D_c=1.174$ Mg/m³, $\lambda=0.71073$ Å, F(000)=612, $2\theta_{\text{max}}=23.29^\circ$; 5208 reflections measured, 3362 unique ($R_{\text{int}}=0.0826$). Final residuals for 399 parameters were $R_1=0.0964$, $wR_2=0.2510$ for $I>2\sigma(I)$, and $R_1=0.1775$, $wR_2=0.2987$ for all 3362 data.

Crystal packing: The co-crystal contains ibuprofen/bipyridine heterodimers, sustained by two hydrogen bonded carboxylic acidpyridine supramolecular synthons, arranged in a herringbone motif that packs in the space group P-1. The heterodimer is an extended version of the homodimer and packs to form a two-dimensional network sustained by π - π stacking of the bipyridine and phenyl groups of the ibuprofen and hydrophobic interactions from the ibuprofen tails.

Infrared Spectroscopy: (Nicolet Avatar 320 FTIR). Analysis observed stretching of aromatic C-H at 2899 cm⁻¹; N--H bending and scissoring at 1886 cm₋₁;

C=O stretching at 1679 cm⁻¹; C-H out-of-plane bending for both 4,4'-bipyridine and ibuprofen at 808 cm⁻¹ and 628 cm⁻¹.

Differential Scanning Calorimetry: (TA Instruments 2920 DSC), 64.85 degrees C (endotherm) and 118.79 degrees C (endotherm); m.p. = 113-120 degrees C (MEL-TEMP); (ibuprofen m.p. = 75-77 degrees C, 4,4'-bipyridine m.p. = 111-114 degrees C).

Thermogravimetric Analysis: (TA Instruments 2950 Hi-Resolution TGA), 13.28% weight loss between room temperature and 100.02 degrees C immediately followed by complete decomposition.

Powder x-ray diffraction: (Rigaku Miniflex Diffractometer using Cu K α (λ = 1.540562), 30kV, 15mA). The powder data were collected over an angular range of 3° to 40° 20 in continuous scan mode using a step size of 0.02° 20 and a scan speed of 2.0°/minute. PXRD derived from the single crystal data, experimental (calculated): 3.4 (3.6); 6.9 (7.2); 10.4 (10.8); 17.3 (17.5); 19.1 (19.7).

Example 28

Flurbiprofen:4,4'-bipyridine (2:1 stoichiometry)

50 mg (0.2046 mmol) flurbiprofen and 15 mg (0.0960 mmol) 4,4'-bipyridine were dissolved in 3 mL acetone. Slow evaporation of the solvent yielded colorless needles of a 2:1 flurbiprofen/4,4'-bipyridine co-crystal, as shown in Figure 48A-D.

Crystal data: (Bruker SMART-APEX CCD Diffractometer), $C_{40}H_{34}F_2N_2O_4$, M=644.69, monoclinic $P2_1/n$; a=5.860(4), b=47.49(3), c=5.928(4) Å, $\beta=107.382$ (8)°, U=1574.3(19) ų, T=200(2) K, Z=2, $\mu(\text{Mo-K}\alpha)=0.096$ mm⁻¹, $D_c=1.360$ Mg/m³, $\lambda=0.71073$ Å, F(000)=676, $2\theta_{\text{max}}=21.69^\circ$; 4246 reflections measured, 1634 unique ($R_{\text{int}}=0.0677$). Final residuals for 226 parameters were $R_1=0.0908$, $wR_2=0.2065$ for $I>2\sigma(I)$, and $R_1=0.1084$, $wR_2=0.2209$ for all 1634 data.

Crystal packing: The co-crystal contains flurbiprofen/bipyridine heterodimers, sustained by two hydrogen bonded carboxylic acidpyridine supramolecular synthon, arranged in a herringbone motif that packs in the space group P2/n. The heterodimer is an extended version of the homodimer and packs to form a two-dimensional network sustained by π - π stacking and hydrophobic interactions of the bipyridine and phenyl groups of the flurbiprofen.

Infrared Spectroscopy: (Nicolet Avatar 320 FTIR), aromatic C-H stretching at 3057 cm⁻¹ and 2981 cm⁻¹; N--H bending and scissoring at 1886 cm⁻¹; C=O stretching at 1690 cm⁻¹; C=C and C=N ring stretching at 1418 cm⁻¹.

Differential Scanning Calorimetry: (TA Instruments 2920 DSC), 162.47 degrees C (endotherm); m.p. = 155-160 degrees C (MEL-TEMP); (flurbiprofen m.p. = 110-111 degrees C, 4,4'-bipyridine m.p. = 111-114 degrees C).

Thermogravimetric Analysis: (TA Instruments 2950 Hi-Resolution TGA), 30.93% weight loss starting at 31.13 degrees C and a 46.26% weight loss starting at 168.74 degrees C followed by complete decomposition.

Powder x-ray diffraction: (Rigaku Miniflex Diffractometer using Cu K α (λ = 1.540562), 30kV, 15mA), the powder data were collected over an angular range of 3° to 40° 20 in continuous scan mode using a step size of 0.02° 20 and a scan speed of 2.0°/minute. PXRD derived from the single crystal data: experimental (calculated): 16.8 (16.8); 17.1 (17.5); 18.1 (18.4); 19.0 (19.0); 20.0 (20.4); 21.3 (21.7); 22.7 (23.0); 25.0 (25.6); 26.0 (26.1); 26.0 (26.6); 26.1 (27.5); 28.2 (28.7); 29.1 (29.7).

Example 29

Flurbiprofen:trans-1,2-bis (4-pyridyl) ethylene (2:1 stoichiometry)

25 mg (0.1023 mmol) flurbiprofen and 10 mg (0.0548 mmol) trans-1, 2-bis (4-pyridyl) ethylene were dissolved in 3 mL acetone. Slow evaporation of the solvent yielded colorless needles of a 2:1 flurbiprofen/1,2-bis (4-pyridyl) ethylene co-crystal, as shown in Figure 49A-B.

Crystal data: (Bruker SMART-APEX CCD Diffractometer), $C_{42}H_{36}F_2N_2O_4$, M=670.73, monoclinic $P2_1/n$; a=5.8697(9), b=47.357(7), c=6.3587(10) Å, $\beta=109.492(3)^\circ$, U=1666.2(4) Å³, T=200(2) K, Z=2, $\mu(Mo-K\alpha)=0.093$ mm⁻¹, $D_c=1.337$ Mg/m³, $\lambda=0.71073$ Å, F(000)=704, $2\theta_{max}=21.69^\circ$, 6977 reflections measured, 2383 unique ($R_{int}=0.0383$). Final residuals for 238 parameters were $R_1=0.0686$, $wR_2=0.1395$ for I>2 $\sigma(I)$, and $R_1=0.1403$, $wR_2=0.1709$ for all 2383 data.

Crystal packing: The co-crystal contains flurbiprofen/1,2-bis (4-pyridyl) ethylene heterodimers, sustained by two hydrogen bonded carboxylic acid-pyridine supramolecular synthons, arranged in a herringbone motif that packs in the space group $P2_1/n$. The heterodimer from 1,2-bis (4-pyridyl) ethylene further extends the homodimer relative to example 28 and packs to form a two-dimensional network

sustained by π - π stacking and hydrophobic interactions of the bipyridine and phenyl groups of the flurbiprofen.

Infrared Spectroscopy: (Nicolet Avatar 320 FTIR), aromatic C-H stretching at 2927 cm⁻¹ and 2850 cm⁻¹; N--H bending and scissoring at 1875 cm⁻¹; C=O stretching at 1707 cm⁻¹; C=C and C=N ring stretching at 1483 cm⁻¹.

Differential Scanning Calorimetry: (TA Instruments 2920 DSC), 100.01 degrees C, 125.59 degrees C and 163.54 degrees C (endotherms); m.p. = 153-158 degrees C (MEL-TEMP); (flurbiprofen m.p. = 110-111 degrees C, trans-1, 2-bis (4-pyridyl) ethylene m.p. = 150-153 degrees C).

Thermogravimetric Analysis: (TA Instruments 2950 Hi-Resolution TGA), 91.79% weight loss starting at 133.18 degrees C followed by complete decomposition.

Powder x-ray diffraction: (Rigaku Miniflex Diffractometer using Cu K α (λ = 1.540562), 30kV, 15mA), the powder data were collected over an angular range of 3° to 40° 20 in continuous scan mode using a step size of 0.02° 20 and a scan speed of 2.0°/minute. PXRD derived from the single crystal data, experimental (calculated): 3.6 (3.7); 17.3 (17.7); 18.1 (18.6); 18.4 (18.6); 19.1 (19.3); 22.3 (22.5); 23.8 (23.9); 25.9 (26.4); 28.1 (28.5).

Example 30

Carbamazepine:p-Phthalaldehyde (1:1 stoichiometry)

25 mg (0.1058 mmol) carbamazepine and 7 mg (0.0521 mmol) p-phthalaldehyde were dissolved in approximately 3 mL methanol. Slow evaporation of the solvent yielded colorless needles of a 1:1 carbamazepine/p-phthalaldehyde co-crystal, as shown in Figure 50A-B.

Crystal data: (Bruker SMART-APEX CCD Diffractometer), $C_{38}H_{30}N_4O_4$, M=606.66, monoclinic C2/c; a=29.191(16), b=4.962(3), c=20.316(11) Å, $\beta=92.105(8)^\circ$, U=2941(3) Å³, T=200(2) K, Z=4, $\mu(Mo-K\alpha)=0.090$ mm⁻¹, $D_c=1.370$ Mg/m³, $\lambda=0.71073$ Å, F(000)=1272, $2\theta_{max}=43.66^\circ$, 3831 reflections measured, 1559 unique ($R_{int}=0.0510$). Final residuals for 268 parameters were $R_1=0.0332$, $wR_2=0.0801$ for $I>2\sigma(I)$, and $R_1=0.0403$, $wR_2=0.0831$ for all 1559 data.

Crystal packing: The co-crystals contain hydrogen bonded carboxamide homodimers that crystallize in the space group C2/c. The 1° amines of the

homodimer are bifurcated to the carbonyl of the p-phthalaldehyde forming a chain with an adjacent homodimer. The chains pack in a crinkled tape motif sustained by π - π interactions between phenyl rings of the CBZ.

Infrared Spectroscopy: (Nicolet Avatar 320 FTIR). The 1° amine unsymmetrical and symmetrical stretching was shifted down to 3418 cm⁻¹; aliphatic aldehyde and 1° amide C=O stretching was shifted up to 1690 cm⁻¹; N-H in-plane bending at 1669 cm⁻¹; C-H aldehyde stretching at 2861 cm⁻¹ and H-C=O bending at 1391 cm⁻¹.

Differential Scanning Calorimetry: (TA Instruments 2920 DSC), 128.46 degrees C (endotherm), m.p. = 121-124 degrees C (MEL-TEMP), (carbamazepine m.p. = 190.2 degrees C, p-phthalaldehyde m.p. = 116 degrees C).

Thermogravimetric Analysis: (TA Instruments 2950 Hi-Resolution TGA), 17.66% weight loss starting at 30.33 degrees C then a 17.57% weight loss starting at 100.14 degrees C followed by complete decomposition.

Powder x-ray diffraction: (Rigaku Miniflex Diffractometer using Cu K α (λ = 1.540562), 30kV, 15mA). The powder data were collected over an angular range of 3° to 40° 20 in continuous scan mode using a step size of 0.02° 20 and a scan speed of 2.0°/minute. PXRD derived from the single crystal data, experimental (calculated): 8.5 (8.7); 10.6 (10.8); 11.9 (12.1); 14.4 (14.7) 15.1 (15.2); 18.0 (18.1); 18.5 (18.2); 19.8 (18.7); 23.7 (24.0); 24.2 (24.2); 26.4 (26.7); 27.6 (27.9); 27.8 (28.2); 28.7 (29.1); 29.3 (29.6); 29.4 (29.8).

Example 31

Carbamazepine:nicotinamide (Form II) (1:1 stoichiometry)

25 mg (0.1058 mmol) carbamazepine and 12 mg (0.0982 mmol) nicotinamide were dissolved in 4 mL of DMSO, methanol or ethanol. Slow evaporation of the solvent yielded colorless needles of a 1:1 carbamazepine/nicotinamide co-crystal, as shown in Figure 51.

Using a separate method, 25 mg (0.1058 mmol) carbamazepine and 12 mg (0.0982mmol) nicotinamide were ground together with mortar and pestle. The solid was determined to be 1:1 carbamazepine/nicotinamide microcrystals (PXRD).

Crystal data: (Bruker SMART-APEX CCD Diffractometer), $C_{21}H_{18}N_4O_2$, M = 358.39, monoclinic $P2_1/n$; a = 5.0961(8), b = 17.595(3), c = 19.647(3) Å, $\beta = 90.917(3)^\circ$, U = 1761.5(5) Å³, T = 200(2) K, Z = 4, $\mu(Mo-K\alpha) = 0.090$ mm⁻¹,

 $D_c = 1.351 \text{ Mg/m}^3$, $\lambda = 0.71073 \text{ Å}$, F(000) = 752, $2\theta_{max} = 56.60^\circ$, 10919 reflections measured, 4041 unique ($R_{int} = 0.0514$). Final residuals for 248 parameters were $R_1 = 0.0732$, $wR_2 = 0.1268$ for $I > 2\sigma(I)$, and $R_1 = 0.1161$, $wR_2 = 0.1430$ for all 4041 data.

Crystal packing: The co-crystals contain hydrogen bonded carboxamide homodimers. The 1° amines are bifurcated to the carbonyl of the nicotinamide on each side of the dimer. The 1° amines of each nicotinamide are hydrogen bonded to the carbonyl of the adjoining dimer. The dimers form chains with π - π interactions from the phenyl groups of the CBZ.

Infrared Spectroscopy: (Nicolet Avatar 320 FTIR), unsymmetrical and symmetrical stretching shifts down to 3443 cm⁻¹ and 3388 cm⁻¹ accounting for 1° amines; 1° amide C=O stretching at 1690 cm⁻¹; N-H in-plane bending at 1614 cm⁻¹; C=C stretching shifted down to 1579 cm⁻¹; aromatic H's from 800 cm⁻¹ to 500 cm⁻¹ are present.

Differential Scanning Calorimetry: (TA Instruments 2920 DSC), 74.49 degrees C (endotherm) and 159.05 degrees C (endotherm), m.p. = 153-158 degrees C (MEL-TEMP), (carbamazepine m.p. = 190.2 degrees C, nicotinamide m.p. = 150-160 degrees C).

Thermogravimetric Analysis: (TA Instruments 2950 Hi-Resolution TGA), 57.94% weight loss starting at 205.43 degrees C followed by complete decomposition.

Powder x-ray diffraction: (Rigaku Miniflex Diffractometer using Cu K α (λ = 1.540562), 30kV, 15mA). The powder data were collected over an angular range of 3° to 40° 20 in continuous scan mode using a step size of 0.02° 20 and a scan speed of 2.0°/minute. PXRD: Showed analogous peaks to the simulated PXRD derived from the single crystal data. PXRD analysis experimental (calculated): 6.5 (6.7); 8.8 (9.0); 10.1 (10.3); 13.2 (13.5); 15.6 (15.8); 17.7 (17.9); 17.8 (18.1); 18.3 (18.6); 19.8 (20.1); 20.4 (20.7); 21.6 (22.); 22.6 (22.8); 22.9 (23.2); 26.4 (26.7); 26.7 (27.0); 28.0 (28.4).

Example 32

Carbamazepine:saccharin (Form II) (1:1 stoichiometry)

25 mg (0.1058mmol) carbamazepine and 19 mg (0.1037 mmol) saccharin were dissolved in approximately 4 mL ethanol. Slow evaporation of the solvent

yielded colorless needles of a 1:1 carbamazepine/saccharin cocrystal, as shown in Figure 52. Solubility measurements indicate that this multiple-component crystal of carbamazepine has improved solubility over previously known forms of carbamazepine (e.g., increased molar solubility and longer solubility in aqueous solutions).

Crystal data: (Bruker SMART-APEX CCD Diffractometer), $C_{22}H_{17}N_3O_4S_1$, M=419.45, triclinic P-I; a=7.5140(11), b=10.4538(15), c=12.6826(18) Å, $\alpha=83.642(2)^{\circ}$, $\beta=85.697(2)^{\circ}$, $\gamma=75.411(2)^{\circ}$, U=957.0(2) Å³, T=200(2) K, Z=2, $\mu(\text{Mo-K}\alpha)=0.206$ mm⁻¹, $D_c=1.456$ Mg/m³, $\lambda=0.71073$ Å, F(000)=436, $2\theta_{\text{max}}=56.20^{\circ}$; 8426 reflections measured, 4372 unique ($R_{\text{int}}=0.0305$). Final residuals for 283 parameters were $R_1=0.0458$, $wR_2=0.1142$ for $I>2\sigma(I)$, and $R_1=0.0562$, $wR_2=0.1204$ for all 4372 data.

Crystal packing: The co-crystals contain hydrogen bonded carboxamide homodimers. The 2° amines of the saccharin are hydrogen bonded to the carbonyl of the CBZ on each side forming a tetramer. The crystal has a space group of P-1 with π - π interactions between the phenyl groups of the CBZ and the saccharin phenyl groups.

Infrared Spectroscopy: (Nicolet Avatar 320 FTIR), unsymmetrical and symmetrical stretching shifts up to 3495 cm⁻¹ accounting for 1° amines; C=O aliphatic stretching was shifted up to 1726 cm⁻¹; N-H in-plane bending at 1649 cm⁻¹; C=C stretching shifted down to 1561 cm⁻¹; (O=S=O) sulfonyl peak at 1330 cm⁻¹ C-N aliphatic stretching 1175 cm⁻¹.

Differential Scanning Calorimetry: (TA Instruments 2920 DSC), 75.31 degrees C (endotherm) and 177.32 degrees C (endotherm), m.p. = 148-155 degrees C (MEL-TEMP); (carbamazepine m.p. = 190.2 degrees C, saccharin m.p. = 228.8 degrees C).

Thermogravimetric Analysis: (TA Instruments 2950 Hi-Resolution TGA), 3.342% weight loss starting at 67.03 degrees C and a 55.09% weight loss starting at 118.71 degrees C followed by complete decomposition.

Powder x-ray diffraction: (Rigaku Miniflex Diffractometer using Cu K α ($\lambda = 1.540562$), 30kV, 15mA). The powder data were collected over an angular range of 3° to 40° 20 in continuous scan mode using a step size of 0.02° 20 and a scan speed of 2.0°/minute. PXRD derived from the single crystal data, experimental (calculated):

6.9 (7.0); 12.2 (12.2); 13.6 (13.8); 14.0 (14.1); 14.1 (14.4); 15.3 (15.6); 15.9 (15.9); 18.1 (18.2); 18.7 (18.8); 20.2 (20.3); 21.3 (21.5); 23.7 (23.9); 26.3 (26.4); 28.3 (28.3).

Example 33

Carbamazepine:2,6-pyridinedicarboxylic acid (2:3 stoichiometry)

36 mg (0.1524 mmol) carbamazepine and 26 mg (0.1556 mmol) 2,6-pyridinedicarboxylic acid were dissolved in approximately 2 mL ethanol. Slow evaporation of the solvent yielded clear needles of a 1:1 carbamazepine/2,6-pyridinedicarboxylic acid co-crystal, as shown in Figure 54A-B.

Crystal data: (Bruker SMART-APEX CCD Diffractometer). $C_{22}H_{17}N_3O_5$, M=403.39, orthorhombic P2(1)2(1)2(1); a=7.2122, b=14.6491, c=17.5864 Å, α =90°, β =90°, γ =90°, V=1858.0(2) ų, T=100 K, Z=4, μ (MO-K α)=0.104 mm⁻¹, D_c=1.442 Mg/m³, λ =0.71073Å, F(000)840, $2\theta_{max}$ =28.3. 16641 reflections measured, 4466 unique (R_{int}=0.093). Final residuals for 271 parameters were R₁=0.0425 and wR₂=0.0944 for I>2 α (I).

Crystal packing: Each hydrogen on the CBZ 1° amine is hydrogen bonded to a carbonyl group of a different 2,6-pyridinedicarboxylic acid moiety. The carbonyl of the CBZ carboxamide is hydrogen bonded to two hydroxide groups of one 2,6-pyridinedicarboxylic acid moiety.

Infrared Spectroscopy: (Nicolet Avatar 320 FTIR). 3439 cm⁻¹, (N-H stretch, 1° amine, CBZ); 1734 cm⁻¹, (C=O); 1649 cm⁻¹, (C=C).

Melting Point: 214-216 degrees C (MEL-TEMP). (carbamazepine m.p. = 191-192 degrees C, 2,6-pyridinedicarboxylic acid m.p. = 248-250 degrees C).

Thermogravimetric Analysis: (TA Instruments 2950 Hi-Resolution TGA). 69% weight loss starting at 215 degrees C and a 17% weight loss starting at 392 degrees C followed by complete decomposition.

Example 34

Carbamazepine:5-nitroisophthalic acid (1:1 stoichiometry)

40 mg (0.1693 mmol) carbamazepine and 30 mg (0.1421 mmol) 5-nitroisophthalic acid were dissolved in approximately 3 mL methanol or ethanol. Slow evaporation of the solvent yielded yellow needles of a 1:1 carbamazepine/5-nitroisophthalic acid co-crystal, as shown in Figure 55A-B.

Crystal data: (Bruker SMART-APEX CCD Diffractometer). $C_{47}H_{40}N_6O_{16}$, M=944.85, monoclinic C2/c; a=34.355(8), b=5.3795(13), c=23.654(6) Å, α =90°, β =93.952(6)°, γ =90°, V=4361.2(18)ų, T=200(2) K, Z=4, μ (MO-K α)=0.110 mm⁻¹, D_c =1.439 Mg/m³, λ =0.71073Å, F(000)1968, $2\theta_{max}$ =26.43°. 11581 reflections measured, 4459 unique (R_{int} =0.0611). Final residuals for 311 parameters were R_1 =0.0725, w R_2 =0.1801 for I>2 α (I), and R_1 =0.1441, w R_2 =0.1204 for all 4459 data.

Crystal packing: The co-crystals are sustained by hydrogen bonded carboxylic acid homodimers between the two 5-nitroisophthalic acid moieties and hydrogen bonded carboxy-amide heterodimers between the carbamazepine and 5-nitroisophthalic acid moiety. There is solvent hydrogen bonded to an additional N-H donor from the carbamazepine moiety.

Infrared Spectroscopy: (Nicolet Avatar 320 FTIR). 3470 cm⁻¹, (N-H stretch, 1° amine, CBZ); 3178 cm⁻¹, (C-H stretch, alkene); 1688 cm⁻¹, (C=O); 1602 cm⁻¹, (C=C).

Differential Scanning Calorimetry: (TA Instruments 2920 DSC). 190.51 degrees C (endotherm). m.p. = NA (decomposes at 197-200 degrees C) (MELTEMP). (carbamazepine m.p. = 191-192 degrees C, 5-nitroisophthalic acid m.p. = 260-261 degrees C).

Thermogravimetric Analysis: (TA Instruments 2950 Hi-Resolution TGA). 32.02% weight loss starting at 202 degrees C, a 12.12% weight loss starting at 224 degrees C and a 17.94% weight loss starting at 285 degrees C followed by complete decomposition.

Powder x-ray diffraction: (Rigaku Miniflex Diffractometer using CuKα (λ=1.540562), 30kV, 15mA). The powder data were collected over an angular range of 3 to 40.2 in continuous scan mode using a step size of 0.02.2 and a scan speed of 2.0 /min. PXRD: Showed analogous peaks to the simulated PXRD derived from the single crystal data. PXRD analysis experimental (calculated): 10.138 (10.283), 15.291 (15.607), 17.438 (17.791), 21.166 (21.685), 31.407 (31.738), 32.650 (32.729).

Example 35

Carbamazepine:1,3,5,7-adamantane tetracarboxylic acid (1:1 stoichiometry)

15 mg (0.1524 mmol) carbamazepine and 20 mg (0.1556 mmol) 1,3,5,7adamantanetetracarboxylic acid were dissolved in approximately 1 mL methanol or 1

mL ethanol. Slow evaporation of the solvent yields clear plates of a 2:1 carbamazepine/1,3,5,7-adamantanetetracarboxylic acid co-crystal, as shown in Figure 56A-B.

Crystal data: (Bruker SMART-APEX CCD Diffractometer). $C_{44}H_{40}N_2O_{10}$, M=784.80, monoclinicC2/c; a=18.388(4), b=12.682(3), c=16.429(3) Å, β =100.491(6)°, V=3767.1(14) ų, T=100(2) K, Z=4, μ (MO-K α)=0.099 mm⁻¹, D_c =1.384 Mg/m³, λ =0.71073Å, F(000)1648, $2\theta_{max}$ =28.20°. 16499 reflections measured, 4481 unique (R_{int} =0.052). Final residuals for 263 parameters were R_1 =0.0433 and w R_2 =0.0913 for I>2 α (I).

Crystal packing: The co-crystals form a single 3D network of four tetrahedron, linked by square planes similar to the *PtS* topology. The crystals are sustained by hydrogen bonding.

Infrared Spectroscopy: (Nicolet Avatar 320 FTIR). 3431 cm⁻¹, (N-H stretch, 1° amine, CBZ); 3123 cm⁻¹, (C-H stretch, alkene); 1723 cm⁻¹, (C=O); 1649 cm⁻¹, (C=C).

Melting Point: (MEL-TEMP). 258-260 degrees C (carbamazepine m.p. = 191-192 degrees C, adamantanetetracarboxylic acid m.p. = >390 degrees C).

Thermogravimetric Analysis: (TA Instruments 2950 Hi-Resolution TGA).

9% weight loss starting at 189 degrees C, a 52% weight loss starting at 251 degrees C and a 31% weight loss starting at 374 degrees C followed by complete decomposition.

Example 36

Carbamazepine:benzoquinone (1:1 stoichiometry)

25 mg (0.1058 mmol) carbamazepine and 11 mg (0.1018 mmol) benzoquinone was dissolved in 2 mL methanol or THF. Slow evaporation of the solvent produced an average yield of yellow crystals of a 1:1 carbamazepine/benzoquinone co-crystal, as shown in Figure 57A-B.

Crystal data: (Bruker SMART-APEX CCD Diffractometer). $C_{21}H_{16}N_2O_3$, M=344.36, monoclinic P2(1)/c; a=10.3335(18), b=27.611(5), c=4.9960(9) Å, β =102.275(3)°, V=1392.9(4) ų, T=100(2) K, Z=3, D_c =1.232 Mg/m³, μ (MO-K α)=0.084 mm⁻¹, λ =0.71073Å, F(000)540, $2\theta_{max}$ =28.24°. 8392 reflections measured,

3223 unique (R_{int} =0.1136). Final residuals for 199 parameters were R_1 =0.0545 and w R_2 =0.1358 for I>2 σ (I), and R_1 =0.0659 and w R_2 =0.1427 for all 3223 data.

Crystal packing: The co-crystals contain hydrogen bonded carboxamide homodimers. Each 1° amine on the CBZ is bifurcated to a carbonyl group of a benzoquinone moiety. The dimers form infinite chains.

Infrared Spectroscopy: (Nicolet Avatar 320 FTIR). 3420 cm⁻¹, (N-H stretch, 1° amine, CBZ); 2750 cm⁻¹, (aldehyde stretch); 1672 cm⁻¹, (C=O); 1637 cm⁻¹, (C=C, CBZ).

Melting Point: 170 degrees C (MEL-TEMP). (carbamazepine m.p. = 191-192 degrees C, benzoquinone m.p. = 115.7 degrees C).

Thermogravimetric Analysis: (TA Instruments 2950 Hi-Resolution TGA). 20.62% weight loss starting at 168 degrees C and a 78% weight loss starting at 223 degrees C followed by complete decomposition.

Example 37

Carbamazepine:trimesic acid (Form II) (1:1 stoichiometry)

36 mg (0.1524 mmol) carbamazepine and 31 mg (0.1475 mmol) trimesic acid were dissolved in a solvent mixture of approximately 2 mL methanol and 2 mL dichloromethane. Slow evaporation of the solvent mixture yielded white starbursts of a 1:1 carbamazepine/trimesic acid co-crystal, as shown in Figure 58A-B.

Crystal data: (Bruker SMART-APEX CCD Diffractometer). $C_{24}H_{18}N_2O_7$, M=446.26, monoclinic C2/c; a=32.5312(50), b=5.2697(8), c=24.1594(37) Å, α =90°, β =98.191(3)°, γ =90°, V=4099.39(37) ų, T=-173 K, Z=8, μ (MO-K α)=0.110 mm⁻¹, D_c =1.439 Mg/m³, λ =0.71073Å, F(000)1968, $2\theta_{max}$ =26.43°. 11581 reflections measured, 4459 unique (R_{int} =0.0611). Final residuals for 2777 parameters were R_1 =0.1563, w R_2 =0.1887 for l>2 α (I), and R_1 =0.1441, w R_2 =0.1204 for all 3601 data.

Crystal packing: The co-crystals are sustained by hydrogen bonded carboxylic acid homodimers between carbamazepine and trimesic acid moieties and hydrogen bonded carboxylic acid-amine heterodimers between two trimesic acid moieties arranged in a stacked ladder formation.

Infrared Spectroscopy: (Nicolet Avatar 320 FTIR). 3486 cm⁻¹(N-H stretch, 1° amine, CBZ); 1688 cm⁻¹ (C=O, 1° amide stretch, CBZ); 1602 cm⁻¹ (C=C, CBZ).

Differential Scanning Calorimetry: (TA Instruments 2920 DSC). 273 degrees C (endotherm). m.p. = NA, decomposes at 278 degrees C (MEL-TEMP). (carbamazepine m.p. = 191-192 degrees C, trimesic acid m.p. = 380 degrees C)

Thermogravimetric Analysis: (TA Instruments 2950 Hi-Resolution TGA). 62.83% weight loss starting at 253 degrees C and a 30.20% weight loss starting at 278 degrees C followed by complete decomposition.

Powder x-ray diffraction: (Rigaku Miniflex Diffractometer using CuK α (λ =1.540562), 30kV, 15mA). The powder data were collected over an angular range of 3 to 40 2 in continuous scan mode using a step size of 0.02 2 and a scan speed of 2.0/min. PXRD analysis experimental: 10.736, 12.087, 16.857, 24.857, 27.857.

Table V. Detailed Characterization of Co-Crystals

All PXRD peaks are in units of degrees 2-theta

All Raman shifts are in units of cm-1

Carbamazepine: Saccharin

PXRD (Form I): 7.01, 12.07, 14.09, 15.41, 18.47, 20.13, 22.01, 23.57, 24.41, 28.31 (Fig. 1)

PXRD (Form II): 6.9, 12.2, 13.6, 14.0, 14.1, 15.3, 15.9, 18.1, 18.7, 20.2, 21.3, 23.7, 26.3, 28.3

DSC (Form I): Broad endotherm at 161.9 degrees C (Fig. 2)

TGA (Form I): Decomposition above 200 degrees CDSC (Form II): Endothermic transitions at 75.31 and 177.32 degrees C

TGA (Form II): 3.342 percent weight loss starting at 67.03 degrees C, 55.09 percent weight loss starting at 118.71 degrees C, followed by decomposition Method: CMAX

Carbamazepine: Nicotinamide

PXRD (Form I): 4.97, 6.67, 8.75, 10.25, 13.25, 17.91, 18.49, 19.95, 20.49, 22.73, 24.39, 26.49 (Fig. 3)

PXRD (Form II): 6.5, 8.8, 10.1, 13.2, 15.6, 17.7, 17.8, 18.3, 19.8, 20.4, 21.6, 22.6, 22.9, 26.4, 26.7, 28.0

DSC (Form I): Sharp endotherm at 156.9 degrees C (Fig. 4)

TGA (Form I): Decomposition beginning at ~150 degrees CDSC (Form II):

Endothermic transitions at 74.49 and 159.05 degrees C

TGA (Form II): 57.94 percent weight loss starting at 205.43 degrees C, followed by decomposition

Method: CMAX

Carbamazepine: Trimesic acid

PXRD (Form I): 10.89, 12.23, 14.83, 16.25, 17.05, 18.13, 18.47, 21.47, 21.95, 24.57, 25.11, 27.99 (Fig. 5)

PXRD (Form II): 10.74, 12.09, 16.86, 24.86, 27.86

DSC (Form II): Endothermic transition at 273 degrees C

TGA (Form II): 62.83 percent weight loss starting at 253 degrees C, 30.20 percent

weight loss starting at 278 degrees C, followed by decomposition

Method: CMAX

Celecoxib: Nicotinamide

PXRD: 3.77, 7.56, 9.63, 14.76, 15.21, 16.01, 17.78, 18.68, 19.31, 20.44, 21.19, 22.10

DSC: Two endothermic transitions at 117.2 and 118.8 degrees C and a sharp

endotherm at 129.7 degrees C

TGA: Decomposition beginning at ~150 degrees C

Raman: 1617.5, 1598.7, 1452.1, 1370.3, 1162.5, 1044.3, 972.9, 796.4, 631.8, 392.5,

205.9

Method: Slow evaporation of a 1:1 solution from acetone

Topiramate: 18-Crown-6

PXRD: 10.79, 11.07, 12.17, 13.83, 16.13, 18.03, 18.51, 18.79, 19.21, 21.43, 22.25,

24.11 (Fig. 6)

DSC: Sharp endotherm at 134.7 degrees C, followed by an exotherm at 203 degrees C

(Fig. 7)

TGA: Rapid decomposition beginning at ~ 135 degrees C and leveling off slightly

after 200 degrees C

Raman: 2994.5, 2942.7, 1471.6, 1427.4, 1261.7, 849.4, 804.5, 745.1, 629.2, 280.4,

225.9

Method: Addition of an ether solution containing 1 equivalent of topiramate to an ether solution containing 18-crown-6. Product precipitated following minor agitation of the combined mixture and was collected.

Olanzapine: Nicotinamide

PXRD (Form I): 4.89, 8.65, 12.51, 14.19, 15.59, 17.15, 19.71, 21.05, 23.95, 24.59,

25.53, 26.71 (Fig. 8)

PXRD (Form II): 6.41, 12.85, 18.67, 21.85, 24.37 (Fig.30)

PXRD (Form III): 6.41, 12.85, 14.91, 18.67, 21.85, 24.37 (Fig. 31)

DSC (Form I): Slightly broad endotherm at 126.1 degrees C (Fig. 9)

Method: See above

Celecoxib: 18-Crown-6

PXRD: 8.73, 11.89, 12.57, 13.13, 15.01, 16.37, 17.03, 17.75, 18.45, 20.75, 22.37,

23.11, 24.33, 24.97, 26.61, 28.15 (Fig. 10)

DSC: Sharp endotherm at 189.6 degrees C (Fig. 11)

TGA: Decomposition above 200 degrees C with a 25% weight loss between ~190-210

degrees C

Method: A solution containing one equivalent of celecoxib in ether was added to a solution containing 18-crown-6. A white solid formed immediately and was collected.

Itraconazole: Succinic Acid

PXRD: 3.0, 6.0, 8.1, 9.0, 17.1, 24.5 (Fig. 12)

DSC: Single endothermic transition at 160.1 degrees $C \pm 1.0$ degrees C (Fig. 13)

TGA: Less than 0.1 % volatile components by weight

Method: See above

Itraconazole: Fumaric Acid

PXRD: 4.6, 5.9, 9.2, 10.6, 19.1, 20.8 (Fig. 14)

DSC: The material had a weak endothermic transition at 141.7 degrees C and a strong

endothermic transition at 179.58 degrees C (Fig. 15)

TGA: The sample loses 0.5 % of its weight on the TGA between room temperature

and 100 degrees C

Method:

Itraconazole: Tartaric Acid

PXRD: 4.1, 6.2, 8.3, 20.7, 25.6, 26.3 (Fig. 16)

DSC: An endothermic transition at 180.74 degrees C (Fig. 17) TGA: Less than 0.1 % volatile components by weight by TGA.

Method: See above

Itraconazole: Malic acid

PXRD: 4.4, 5.9, 8.8, 17.7, 20.0, 21.1, 22.6 (Fig. 18)

DSC: The sample has a strong endothermic transition at 154.36 degrees C (Fig. 19)

TGA: The sample contained less than 0.1% volatile components by weight

Method: See above

ItraconazoleHCl: Tartaric acid

PXRD: 3.7, 11.0, 13.8, 16.5, 17.8 (Fig. 20)

DSC: The sample has a peak endothermic transition at 161degrees C (Fig. 21)

TGA: The sample contained less than 0.1 % volatile components by weight

Method: See above

Modafinil: Malonic acid

PXRD: 5.00, 9.17, 16.81, 18.26, 19.43, 21.36, 21.94, 22.77, 24.49, 25.63, 28.45 (Fig.

22)

DSC: Endothermic transition at 106.23 degrees C (Fig. 40)

Raman: 1601, 1183, 1032, 1004, 814, 633, 265, 222 (Fig. 42)

Method: See above

Modafinil: Benzamide

PXRD: 5.11, 9.35, 10.25, 10.79, 14.07, 16.87, 18.33, 19.53, 21.38, 22.05, 22.89,

23.57, 24.73, 25.19, 25.81, 26.51, 28.60 (Fig. 23)

Method: Slow evaporation from a 1:1 solution in 1,2-dichoroethane

Modafinil: Mandelic acid

PXRD: 6.11, 6.75, 9.53, 10.31, 14.77, 15.77, 16.99, 18.03, 20.01, 21.61, 22.47, 23.27,

25.27, 25.75, 27.23 (Fig. 24)

Method: Slow evaporation from a 1:1 solution in acetone

Modafinil: Glycolic acid

PXRD: 6.09, 9.51, 14.91, 15.97, 19.01, 20.03, 21.59, 22.43, 22.75, 23.75, 25.03,

25.71 (Fig. 25)

Method: Slow evaporation from a 1:1 solution in acetone

Modafinil: Fumaric acid

PXRD: 5.87, 7.19, 8.95, 12.49, 13.99, 16.13, 17.09, 18.19, 19.99, 21.57, 23.48, 25.01,

25.79, 28.17, 28.87, 29.69, 32.19 (Fig. 26)

Method: Slow evaporation from a 1:1 solution in 1,2-dichoroethane

Modafinil: Maleic acid

PXRD: 4.69, 6.15, 9.61, 10.23, 15.65, 16.53, 17.19, 18.01, 19.27, 19.53, 19.97, 21.83,

22.45, 25.65 (Fig. 43)

Method: See above

5-fluorouracil: Urea

PXRD: 11.23, 12.69, 13.27, 15.93, 16.93, 20.37, 23.65, 25.55, 26.87, 32.49 (Fig. 36)

DSC: Sharp endotherm at 207.6 degrees C (Fig. 33)

TGA: 32 percent weight loss between 150 and 220 degrees C (Fig. 34)

Raman: 1347.1, 1024.4, 756.9, 643.7, 545.3 (Fig. 35)

Method: See above

Hydroclorothiazide: Nicotinic acid

PXRD: 8.57, 13.23, 14.31, 16.27, 17.89, 18.75, 21.13, 21.45, 24.41, 25.73, 26.57,

27.43 (Fig. 37)

Method: See above

Hydrochlorothiazide: 18-crown-6

PXRD: 9.97, 10.43, 11.57, 11.81, 12.83, 14.53, 15.67, 16.61, 19.05, 20.31, 20.65,

21.09, 21.85, 22.45, 23.63, 24.21, 25.33, 26.73 (Fig. 38)

Method: See above

Hydrochlorothiazide: piperazine

PXRD: 6.85, 13.75, 15.93, 18.71, 20.67, 20.93, 23.27, 24.17, 28.33, 28.87, 30.89 (Fig.

39)

Method: See above

Acetaminophen: 4,4'-bipyridine:water

DSC: Endothermic transition at 57.77 degrees C

Method: See above

Phenytoin: Pyridone

PXRD: 5.2, 11.1, 15.1, 16.2, 16.7, 17.8, 19.4, 19.8, 20.3, 21.2, 23.3, 26.1, 26.4, 27.3,

29.5

DSC: Endothermic transitions at 233.39 and 271.33 degrees C

TGA: 29.09 percent weight loss starting at 192.8 degrees C, 48.72 percent weight loss starting at 238.27 degrees C, 18.38 percent weight loss starting at 260.17 degrees C,

followed by decomposition

Method: See above

Aspirin: 4,4'-bipyridine

DSC: Endothermic transition at 95.14 degrees C

TGA: 9 percent weight loss starting at 22.62 degrees C, 49.06 percent weight loss

starting at 102.97 degrees C, decomposition starting at 209.37 degrees C

Method: See above

Ibuprofen: 4,4'-bipyridine

PXRD: 3.4, 6.9, 10.4, 17.3, 19.1

DSC: Endothermic transitions at 64.85 and 118.79 degrees C

TGA: 13.28 percent weight loss between room temperature and 100.02 degrees C

followed by decomposition

Method: See above

Flurbiprofen: 4,4'-bipyridine

PXRD: 16.8, 17.1, 18.1, 19.0, 20.0, 21.3, 22.7, 25.0, 26.0, 26.0, 26.1, 28.2, 29.1

DSC: Endothermic transition at 162.47 degrees C

TGA: 30.93 percent weight loss starting at 31.13 degrees C, 46.26 percent weight loss

starting at 168.74 degrees C, followed by decomposition

Method: See above

Flurbiprofen:trans-1,2-bis (4-pyridyl) ethylene

PXRD: 3.6, 17.3, 18.1, 18.4, 19.1, 22.3, 23.8, 25.9, 28.1

DSC: Endothermic transitions at 100.01, 125.59, and 163.54 degrees C

TGA: 91.79 percent weight loss starting at 133.18 degrees C followed by

decomposition

Method: See above

Carbamazepine: p-phthalaldehyde

PXRD: 8.5, 10.6, 11.9, 14.4, 15.1, 18.0, 18.5, 19.8, 23.7, 24.2, 26.4, 27.6, 27.8, 28.7,

29.3, 29.4

DSC: Endothermic transition at 128.46 degrees C

TGA: 17.66 percent weight loss starting at 30.33 degrees C, 17.57 percent weight loss

starting at 100.14 degrees C, followed by decomposition

Method: See above

Carbamazepine: 2,6-pyridinecarboxylic acid

TGA: 69 percent weight loss starting at 215 degrees C, 17 percent weight loss starting

at 392 degrees C, followed by decomposition

Method: See above

Carbamazepine: 5-nitroisophthalic acid

PXRD: 10.14, 15.29, 17.44, 21.17, 31.41, 32.65

TGA: 32.02 percent weight loss starting at 202 degrees C, 12.12 percent weight loss

starting at 224 degrees C, 17.94 percent weight loss starting at 285 degrees C,

followed by decomposition

Method: See above

Carbamazepine: 1,3,5,7-adamantane tetracarboxylic acid

TGA: 9 percent weight loss starting at 189 degrees C, 52 percent weight loss starting

at 251 degrees C, 31 percent weight loss starting at 374 degrees C, followed by

decomposition

Method: See above

Carbamazepine: Benzoquinone

TGA: 20.62 percent weight loss starting at 168 degrees C, 78 percent weight loss

starting at 223 degrees C, followed by decomposition

Method: See above

Example 38

A co-crystal with a modulated dissolution profile has been prepared. Celecoxib: nicotinamide co-crystals were prepared via methods shown in example 4. (See Fig. 27)

Example 39

A co-crystal with a modulated dissolution profile has been prepared. Itraconazole: succinic acid, itraconazole:tartaric acid and itraconazole:malic acid co-crystals were prepared via methods shown in examples 8, 10 and 11. (See Fig. 28)

Example 40

A co-crystal of an unsaltable or difficult to salt API has been prepared. Celecoxib: nicotinamide co-crystals were prepared via methods shown in example 4.

Example 41

A co-crystal with an improved hygroscopicity profile has been prepared. Celecoxib: nicotinamide co-crystals were prepared via methods shown in example 4. (See Fig. 29)

Example 42

A co-crystal with reduced form diversity as compared to the API has been prepared. Co-crystals of carbamazepine and saccharin have been prepared via method shown in example 1.

Co-Crystal Former	MW (g/mol)	MP (°C)	Class	MP (°C) Class Functionality # acceptors # donors	# acceptors	# donors	Molecular Strucutre	pKa Values
1-Hydroxy-2-naphthoic acid	188.18	191-192	2	Carboxylic acid, alcohol	7	2	HOOO	2.7, 13.5
4-aminobenzoic acid	137.14	187-188	2	Amine, carboxylic acid	1	3	O HO	4.7, 4.8
4-aminopyridine	94.11	158-159	3	Amine, pyridine	1	2	N NH2	10
4-Chlorobenzene- sulfonic acid	192.63	. 69		H⁵OS	3		CI———SO ₃ H	0-1
4-ethoxyphenyl urea	180.2	173-174	د	Amide, NH	2	3	NH1	6-2~
7-oxo-DHEA	303	190-192		Alcohol, Ketone	æ	_	O TO	

Co-Crystal Former	MM (g/mol)	MP (°C)	Class	Class Functionality # acceptors # donors	# acceptors	# donors	Molecular Strucutre	pKa Values
Acesulfame	163.15	123-124	3	SO ₂ , Amide	4		O COST	~5-7
Acetohydroxamic acid	75.07	89-92	3	Amide, NH, OH	2	2	0 ====================================	8.7
Adenine	135.13	220 (sub.)	1	Amine, NH	3	3	HE NAME OF THE PARTY OF THE PAR	හ හ
Adipic Acid	146.14	152	-	Carboxylic acid	2	2	ноос(сн₂)₄соон	4.44, 5.44
Alanine	89.09	289-291	-	Amine, carboxillic acid		3	HO N2H	2.35, 9.87
Allopurinaol	136.11	> 350	ю	он, ин	4	2	**************************************	10.2

Co-Crystal Former	MW (g/mol)	MP (°C)	Class	Class Functionality # acceptors # donors	# acceptors	# donors	Molecular Strucutre	pKa Values
Arginine	174.2	244 (dec.)	1	Amine, COOH	2	7	HO NATH	2.18, 9.09,
Ascorbic acid	176.12	190-192	1	С=0, ОН	9	, 4	OF OP	4.17, 11.57
Asparagine	132.12	234-235	1	Amine, amide, COOH	3	5	H ₂ N OH	2.02, 8.5
Aspartic acid	133.1	270-271	1	Amine, COOH	2	4	HO OH	1.88, 3.65, 9.60
Benzenesulfonic Acid	158.18	43-44	1	SO ₃ H	2	1	SO ₂ H	0.70, 1.58
Benzoic acid*	122.12	122-123	2	НООО	_		F-0	4.19

Co-Crystal Former	MW (g/mol)	MP (°C)	Class	MP (°C) Class Functionality # acceptors # donors	# acceptors	# donors	Molecular Strucutre	pKa Values
Caffeine	194.19	238	3	0=0	3	0	0 Cr13	
Camphoric acid	200.23	186-189	2	Carboxylic acid	2	2	H ₃ С СООН СН ₃ СООН	4.72, 5.83
Capric acid	172.27	31.4		Carboxylic acid	1	1	СН ₃ (СН ₂) ₈ СООН	4.9
Chrysin	254.24	285	-	Phenol, ether, ketone	2	2	OH HO	1
Cinnamic acid	144.2	133	ဇ	Carboxylic acid	1	-	- To	4.4
Citric Acid	192.12	153	1	он, соон	4	4	HOOD COOH	3.13, 4.76, 6.40

Co-Crystal Former	MW (g/mol)	MP (°C)	Class	MP (°C) Class Functionality # acceptors # donors	# acceptors	# donors	Molecular Strucutre	pKa Values
Clemizole	325.84	167	1	Pyrrolidine	3	0	and the second s	
Cyclamic acid	179.24	169-170	3	NH, SO ₃ H	2	2	H _c os N	ņ
Cysteine	121.15	-	1	Amine, COOH, SH	2	4	HS NH ₂	1.71, 8.33, 10.78
Dimethylglycine	103.1	178-192	-	Amine, Carboxylic acid	2		N—CH-C—OH	2.5
D-Ribose	150.13	87	1	Alcohol, ether	1	4	HO HO	r
Fumaric acid	116.07	287	-	СООН	2	2	DH .	3.03, 4.38

								nKo
Co-Crystal Former	(g/mol)	MP (°C)		Class Functionality # acceptors # donors	acceptors	# donors	Molecular Strucutre	Values
Galactaric acid	210.14	255 (dec)	-	Carboxylic acid, alcohol	2	ø	HOOOD——————————————————————————————————	3.08, 3.63
Genistein	270.24	297-298	-	Alcohol, Phenol, ether, ketone	2	9	HO OH OH	
Gentisic acid	154.12	199-200 form I, 205 form II	2	Carboxylic acid, alcohol, phenol	-	ဧ	но ОН	2.93
Glucamine, N-Methyl	195.22	128-129	1	Alcohol, Amine	Ŋ	9	HO HO HO	8.03(B)
Gluconic acid	196.15	131	1	он, соон	. 9	9	НОМ₂С СООН ОН Н ОН ОН ОН	3.76
Glucosamine	179.17	&	-	НО	5	9	P P P P P P P P P P P P P P P P P P P	6.91

Co-Crystal Former	MW (g/mol)	MP (°C)	Class	IP (°C) Class Functionality # acceptors # donors	# acceptors	# donors	Molecular Strucutre	pKa Values
Glucuronic acid	194.14	165	-	Carboxylic acid, alcohol, aldehyde	2	5	HO HO HO	3.18
Glutamic acid	147.13	160	1	Amine, COOH	2	4	HO OH	2.19, 4.25, 9.67
Glutamine	146.15	185-186	-	Amine, Amide, COOH	2	5	H ₂ N OH	2.17, 9.13
Glutaric acid	132.11	86-86	1	нооэ	2	2	OH OH	2.7, 4.5
Glycine	75.07	182	1	Amine, COOH	2	3	H ₂ N OH	2.34, 9.6
Glycolic acid	76.05	. 80	-	он, соон	2	2	НООН	3.82

Co-Crystal Former	MW (g/mol)	MP (°C)	Class	Class Functionality # acceptors # donors	# acceptors	# donors	Molecular Strucutre	pKa Values
Hippuric acid	179.17	187-188	1	Amide, NH, COOH	2	2	PO 0	3.55
Histidine	155.16	287 (dec.)	1	Amine, COOH, Imidazole	2	4	HIN NH ₂	1.78, 5.97, 8.97
Hydroquinone*	110.11	170-171	2	OH, Phenol	2	2	НО	~10
Imidazole	68.08	90-91		HN	1	1	THE STATE OF THE S	6.92
Ipriflavone	280.32	115-117		Ketone, ether	3	0	PH3C CH3	
Isoleucine	131.17	168-170 (sub.)	-	Amine, COOH		3	H ₃ C CH ₃ OH	2.32, 9.76

Co-Crystal Former	MW (g/mol)	MP (°C)	Class	MP (°C) Class Functionality # acceptors # donors	# acceptors	# donors	Molecular Strucutre	pKa Values
Lactobionic acid	358.3	128-130	2	Alcohol, carboxylic acid, ether	τ-	. დ		3.2
Lauric acid	200.32	44-48	-	Carboxylic acid	1	-	СН3(СН2)10СООН	-4.5
Leucine	131.17	145-148 (sub.)		Carboxylic acid, amine		3	H ₂ N	2.36, 9.6
Lysine	146.19	225 (dec.)	-	Amine, COOH	-	5	H ₂ N	2.2, 8.9, 10.28
Maleic	116.07	138-139		соон	2	2	ноос соон	1.92, 6.23
Malic acid	134.09	131-132		он, соон	3	33	O DE O	3.46, 5.1

Co-Crystal Former	MW (g/mol)	MP (°C)	Class	Class Functionality # acceptors # donors	# acceptors	# donors	Molecular Strucutre	pKa Values
Malonic	104.06	135	-	Н000	. 2	2	P P	2.83, 5.70
Mandelic acid	152.15	611		он, соон	2	2	¥6	3.37
Methionine	149.21	280-282 (dec.)		Amine, COOH, S-Me	2	3	H ₃ C S OH	2-3, 9
Nicotinamide	122.12	128-131		Pyridine, amide	2	2.	NH1,	ю Ю
Nicotinic acid	123.11	236-237	2	Carboxylic acid, pyridine	2		ă ă	2.07(B), 4.85
Orotic acid	. 156.1	345-346	2	Carboxilic acid, lactam	8	3	O H HOOO	5.85, 8.95

Co-Crystal Former	MW (g/mol)	MP (°C)	Class	Class Functionality # acceptors # donors	# acceptors	# donors	Molecular Strucutre	pKa Values
Oxalic acid	90.04	189 (dec)	2	Carboxilic acid	2	2	но он	1.27, 4.27
Palmitic acid	256.43	63-64	1	Carboxylic acid	-	-	CH₂(CH₂)₁₄COOH	4.9
Pamoic	388.38	280 (dec)	2	Carboxylic acid, phenol	2	4	COOH COOH	2.51, 3.1
Phenylalanine	165.19	283 (dec.)	1	Amine, COOH	1	3	NH ₂	-2, ~9
Piperazine	86.14	106	-	HN	0	2	HN	9.82(B)
Procaine	236.31	61	-	Amine, C=0	2	2		8.9(B)
Proline	115.13	220-222 (dec.)		соон, ин	1	2	OH OH	1.99, 10.6

Co-Crystal Former	MW (g/mol)	MP (°C)	Class	MP (°C) Class Functionality # acceptors # donors	# acceptors	# donors	Molecular Strucutre	pKa Values
p-Toluenesulfonic acid	172.2	106-107	7	Sulfonic acid	2	7-	SO ₃ H	-1.34
Pyridoxamine	168	193-194	2	OH, Amine, Pyridine	3	4	HO that	6
Pyridoxine	170	160	2	Alcohol, Pyridine	3	3	HO CH ₃	6,
Pyroglutamic acid	129.12	162	2	Carboxylic acid, Lactam	2	2	нооо	3.32
Quercetin	302.24	314 dec.	-	Phenol, ether, ketone	2	5	HO HO HO	
Resveratrol	228.24	253-255		Phenol	0	က	Po P	

Co-Crystal Former	MW (g/mol)	MP (°C)		Class Functionality # acceptors # donors	# acceptors	# donors	Molecular Strucutre	pKa Values
Saccharin	183.19	228-230	-	Amide, C=0, S=0, N-H	3	1		2
Salicylic acid, 4-amino	153.14	150-151	33	COOH, OH, Analine	1	4	HO HO HO	3.25, 10, 3.5(B)
Salicylic acid	138.12	159	. 8	соон, он	2	2	PHO HO	2.98, 13.82
Sebacic acid	202.25	134.5	-	Carboxylic acid	2	. 2	ноос ^{(с} н ²)°соон	4.59, 5.59
Serine	105.09	22 8 (dec.)	,	Carboxylic acid, amine, OH	2	3	HO OH	2.21, 9.15
Stearic acid	284.47	70-71	-	Carboxylic acid	1	1	нооว ⁹¹ (сн ²)18	4.9
Succinic acid	118.09	185-187	-	Carboxylic acid	2	2	OH OH	4.21, 5.64

Co-Crystal Former	MW (g/mol)	MP (°C)	Class	MP (°C) Class Functionality # acceptors # donors	# acceptors	# donors	Molecular Strucutre	pKa Values
Tartaric acid	150.09	205-206		Carboxylic acid	4	4	OH HO OH HO	3.02, 4.36
Threonine	119.12	255-257 (dec.)	-	Amine, COOH, OH	2	4	O HAT	2.15, 9.12
TRIS	121.13	171-172	7	Amine, OH	3	5	HO OH	5.91, 8.3
Tryptophan	204.23	289 (dec.)		Amine, COOH, Indole	-	4	ro resident	2.38, 9.39
Tyrosine	181.19	342-344	-	Amine, COOH, OH	2	3	O — VI	2.2, 9.11,
Urea	60.06	Dec.	-	C=0, NH2		4	H ₂ N H ₂ N H ₂ N H ₂ N	φ

Co-Crystal Former	MW [g/mol)	5	Class	P (°C) Class Functionality # acceptors # donors	# acceptors	# donors	Molecular Strucutre	pKa Values
Valine	117.15	315	-	Amine, COOH	1	3	CH ₃ OH	-4.5, -9
Vitamin K5	209.68	280-282 (dec.)	3	Amine, OH	-	3	04 (CH ₃)	⊕
Xylitol	152.15	152.15 93-95 (I)	2	НО	5	5	HO HO OH	<u>ق</u> ۲

	Oc anickal Enumber							
Convete Former	Co-crystal rolliner	Interacting Group	Group .					
								Carboxylic
1 5-Nanthalene-disulfonic Acid	Sulfonic Acid	pyridine	ketone	aldehyde	ether	ester	amide	Acid
1-Hydroxy-2-naphthoic acid	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
1-Hydroxy-2-naphthoic acid	alcohol	alcohol	ketone	thiol	amide	amine	analine	phenol
4-Aminobenzoic Acid	Amine	alcohoi	ketone	thiol	amide	amine	analine	phenol
4-Aminobenzoic Acid	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
A-aminopyridine	Amine	alcohol	ketone	thiol	amide	amine	analine	phenol
			<u>.</u>	 .				*Carboxylic
4-aminopyridine	Pyridine	*alcohol	pyridinium	*	'*amide	nitro	*amine	Acid
		:	į į				••• • • •	Carboxylic ,
4-Chlorobenzene-Sulfonic Acid	Sulfonic Acid	pyridine	ketone	aldehyde	ether	ester	amide	Acid
4-ethoxyphenyl Urea		alcohol	ketone	thiol	amide	amine	analine	phenol
4-ethoxyphenyl Urea	Amine	alcohol	ketone	thiol	amide	amine	analine	phenol
7-oxo-DHEA	alcohol	alcohol	ketone	thiol	amide	amine	analine	phenol
7-oxo-DHEA	Ketone	alcohol	: : :	thiol	amide	amine	analine	phenol
		i	· 	·				carboxilic
Acesulfame	Sulfone	pyridine	ketone	aldehyde	ether	ester	amide	acid
Acesulfame	, Amide	alcohol	ketone	thiol	amide	amine	analine	phenol
Acetohydroxamic Acid	Amide	alcohol	ketone	thiol	amide	amine	analine	phenol
Acetohýdroxamic Acid	Amine	alcohol	ketone	thiol	amide	amine	analine	phenol
ı	Alcohoi	alcohol	ketone	thiol	amide	amine	analine	phenol
Adenine	Amine	alcohol	ketone	thiol	amide	amine	analine	phenol
: i	•	: ! 	; ; ;					*carboxilic
Adenine	Z	*alcohol	pyridinium	*	*amide	nitro	*amine	acid
. piq	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
	Amine	alcohol	ketone	thiol	amide	amine	analine	phenol
	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
Allopurinaol	Alcohol	alcohol	ketone	thiol	amide	amine	analine	phenol
Allopurinaol	Amine	alcohol	ketone	thiol	amide	amine	analine	phenol
Arginine	Amine	alcohol	ketone	thiol	amide	amine	analine	phenol
Arginine	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
Ascorbic Acid	Ketone	alcohol	 	thiol	amide	amine	analine	phenol
Ascorbic Acid	Alcohol	alcohol	ketone	thio	amide	amine	analine	phenol
Ascorbic Acid	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol

1,5-Napthalene-disulfonic Acid	amine phosphate	metals sulfate	thioether sulfone	nitrate	sulfate pyridine	alcohol carboxilic acid	metals	aldehyde
1-Hydroxy-2-naphthoic acid	phosphate	sulfate	sulfone	nitrate	pyridine	carboxilic acid	metals carboxilic acid	aldenyde metals
4-Aminobenzoic Acid	phosphate	sulfate	sulfone	nitrate	pyridine		Carboxylic Acid	metals
4-aminopyridine	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	, metals
4-aminopyridine	*sulfonamide	*ketone	ether	triazole		ammonium	oxime	*chlorine
4-Chlorobenzene-Sulfonic Acid	amine	metals	thioether		sulfate	alcohol		
4-ethoxyphenyl Urea	phosphate	sulfate	sulfone	nitrate	pyridine		Carboxylic Acid	metals
4-ethoxypheny; Urea	phosphate	Sulfate	Sulfone	nitrate	pyridine	carboxilic acid	metals	aldehyde
7-oxo-DHEA	phosphate	sulfate	sultone	nitrate	pyridine		Carboxylic Acid	metals
	azi m	metals	thioether		sulfate	alcohol		
Acesulane	phosphate	sulfate	sulfone	nitrate	pyridine		Carboxylic Acid	metals
Acetohydroxamic Acid	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Acetohydroxamic Acid	phosphate	sulfate	sultone	nitrate	pyridine		carboxilic acid	metals
Acetohydroxamic Acid	phosphate	sulfate	sultone	nitrate	pyridine		Carboxylic Acid	metais
Adenine	phosphate	sulfate	sulfone	nitrate	byndine		carboxiiic acid	inetals
Adenine	*sulfonamide	*ketone	ether	triazole	<u>-</u> .	ammonium	oxime	*chlorine
Adinic acid	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Alanine	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Alanine	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Allopurinaol	phosphate	sulfate	sultone	nitrate	pyridine		Carboxylic Acid	metals
Allopurinaol	phosphate	sulfate	sultone	nitrate	pyridine		carboxilic acid	metals
Arginine	phosphate	sulfate	sultone	nitrate	pyridine		carboxilic acid	Herais
Arginine	phosphate	sulfate	sultone	nitrate	pyridine	!	carboxilic acid	metals
Ascorbic Acid	phosphate	sulfate	sultone	nitrate	pyridine		Carboxylic Acid	metals
Ascorbic Acid	phosphate	Sulfate	Sulfone	nitrate	pyridine		Carboxilic acid	metale

Co-crystal Former								
1,5-Napthalene-disulfonic Acid 1-Hydroxy-2-naphthoic acid 1-Hydroxy-2-naphthoic acid 4-Aminobenzoic Acid 4-Aminobenzoic Acid 4-aminopyridine	ester ester aldehyde aldehyde aldehyde	ether ether ester ester ester	•	cyano cyano cyano	furan	bromine bromine furan furan	chlorine chlorine bromine bromine	s-heterocyclic s-heterocyclic chlorine chlorine
4-aminopyridine	. :	thiol	n-heterocyclic ring	thionedisulfide	thionedisulfide pyrrolidindione iodine	iodine	hydrazone	thiocyanate
4-Chlorobenzene-Sulfonic Acid 4-ethoxyphenyl Urea 7-oxo-DHEA 7-oxo-DHEA	aldehyde aldehyde ester aldehyde	ester ester ether ester	ether ether cyano ether	cyano cyano cyano	furan	furan furan bromine furan	bromine bromine chlorine bromine	chlorine chlorine s-heterocyclic chlorine
Acesulfame Acesulfame Acetohydroxamic Acid Acetohydroxamic Acid Acetohydroxamic Acid Acetohydroxamic Acid	aldehyde aldehyde aldehyde aldehyde	ester ester ester ester	ether ether ether ether	cyano cyano cyano cyano cyano		furan furan furan furan	bromine bromine bromine bromine	chlorine chlorine chlorine chlorine
Adenine Adipic acid Alanine	aldehyde aldehyde	thiol ester ester	n-heterocyclic ring ether ether	thionedisulfide cyano cyano	hionedisulfide pyrrolidindione yano yano	iodine furan furan	hydrazone bromine bromine	thiocyanate chlorine chlorine
Alanine Alopurinaol Alopurinaol Arginine	aldehyde aldehyde aldehyde	ester ester ester	ether ether ether	cyano cyano cyano		furan furan furan furan	bromine bromine bromine bromine	chlorine chlorine chlorine chlorine
Arginine Ascorbic Acid Ascorbic Acid Ascorbic Acid	aldehyde aldehyde aldehyde	ester ester ester	ether ether ether	cyano cyano cyano		furan furan furan	bromine bromine bromine bromine	chlorine chlorine chlorine chlorine

Co-crystal Former	:						
1,5-Napthalene-disulfonic Acid 1-Hydroxy-2-naphthoic acid 1-Hydroxy-2-naphthoic acid 4-Aminobenzoic Acid 4-aminobenzoic Acid 4-aminopyndine	pyridine pyridine s-heterocyclic s-heterocyclic s-heterocyclic	cyano cyano pyridine pyridine pyridine	n-heterocyclic n-heterocyclic cyano cyano cyano	ketone ketone n-heterocyclic n-heterocyclic n-heterocyclic	phosphate ester phosphate ester ketone ketone	phosphate ester phosphate ester phosphate ester	fluorine
4-aminopyridine	*bromine		hydroxamic acid	суапо	carboxamide	*sulfonic acid	*phosphoric acid
4-Chlorobenzene-Sulfonic Acid 4-ethoxyphenyl Urea 7-oxo-DHEA 7-oxo-DHEA	s-heterocyclic s-heterocyclic pyridine s-heterocyclic	pyridine pyridine cyano pyridine	cyano cyano n-heterocyclic cyano	n-heterocyclic n-heterocyclic ketone n-heterocyclic	ketone ketone phosphate ester ketone	phosphate ester phosphate ester phosphate ester	fluorine
Acesulfame Acesulfame Acetohydroxamic Acid Acetohydroxamic Acid Acetohydroxamic Acid Acetohydroxamic Acid	s-heterocyclic s-heterocyclic s-heterocyclic s-heterocyclic	pyridine pyridine pyridine pyridine pyridine	cyano cyano cyano cyano cyano	n-heterocyclic n-heterocyclic n-heterocyclic n-heterocyclic	ketone ketone ketone ketone ketone	phosphate ester phosphate ester phosphate ester phosphate ester phosphate ester	
Adenine Adipic acid Alanine Alanine Allopurinaol Arginine Arginine Ascorbic Acid	*heterocyclic s-heterocyclic s-heterocyclic s-heterocyclic s-heterocyclic s-heterocyclic s-heterocyclic s-heterocyclic s-heterocyclic s-heterocyclic	pyridine	hydroxamic acid cyano cyano cyano cyano cyano cyano cyano cyano	cyano n-heterocyclic n-heterocyclic n-heterocyclic n-heterocyclic n-heterocyclic n-heterocyclic n-heterocyclic	carboxamide ketone	*sulfonic acid phosphate ester phosphate ester phosphate ester phosphate ester phosphate ester phosphate ester phosphate ester phosphate ester phosphate ester	*phosphoric acid
Ascorbic Acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	

Co-crystal Former			;		-			
1,5-Napthalene-disulfonic Acid 1-Hydroxy-2-naphthoic acid 1-Hydroxy-2-naphthoic acid 4-Aminobenzoic Acid 4-Aminobenzoic Acid 4-aminopyridine	carbamate carbamate fluorine fluorine	imidazole imidazole carbamate carbamate	BF4 BF4 imidazole imidazole imidazole	8F4 8F4 8F4			N-SO2 N-SO2 N-SO2	thiourea thiourea thiourea
4-aminopyridine	N-oxide	ester	ether	fluorine	acetate	thione	dithiadiazocyclopentadienyl	
4-Chlorobenzene-Sulfonic Acid 4-ethoxyphenyl Urea 7-oxo-DHEA 7-oxo-DHEA	fluorine fluorine carbamate fluorine	carbamate carbamate imidazole carbamate	imidazole imidazole BF4 imidazole	854 854 854			N-SO2 N-SO2 N-SO2	thiourea thiourea thiourea
Acesulfame Acesulfame Acetohydroxamic Acid Acetohydroxamic Acid Acetohydroxamic Acid Acetohydroxamic Acid	fluorine fluorine fluorine fluorine	carbamate carbamate carbamate carbamate	imidazole imidazole imidazole imidazole imidazole	8F4 8F4 8F4 8F4			N-SO2 N-SO2 N-SO2 N-SO2 N-SO2	thiourea thiourea thiourea thiourea
Adenine Adipic acid Alanine Alanine Allopurinaol Arginine	N-oxide fluorine fluorine fluorine fluorine fluorine fluorine fluorine fluorine	ester carbamate carbamate carbamate carbamate carbamate	ether imidazole imidazole imidazole imidazole imidazole	fluorine BF4 BF4 BF4 BF4 BF4	acetate	thione	dithiadiazocyclopentadienyl N-SO2 N-SO2 N-SO2 N-SO2 N-SO2 N-SO2	thiourea thiourea thiourea thiourea thiourea
Arginine Ascorbic Acid Ascorbic Acid Ascorbic Acid	fluorine fluorine fluorine fluorine	carbamate carbamate carbamate carbamate	imidazole imidazole imidazole imidazole	8F4 8F4 8F4			N-SO2 N-SO2 N-SO2 N-SO2	thiourea thiourea thiourea thiourea

	epoxide peroxide	epoxide peroxide epoxide peroxide epoxide epoxide	e boxide	epoxide
iodine iodine iodine	lodine lodine lodine	odine iodine iodine iodine	iodine codine co	iodine iodine
Co-crystal Former 1,5-Napthalene-disulfonic Acid 1-Hydroxy-2-naphthoic acid 1-Hydroxy-2-naphthoic acid 4-Aminobenzoic Acid 4-Aminobenzoic Acid 4-aminopyridine	4-aminopyridine 4-Chlorobenzene-Sulfonic Acid 4-ethoxyphenyl Urea 7-oxo-DHEA 7-oxo-DHEA	Acesulfame Acesulfame Acetohydroxamic Acid Acetohydroxamic Acid Acetohydroxamic Acid Acetohydroxamic Acid	Adenine Adipic acid Alanine Alanine Allopurinaol Arginine	Ascorbic Acid Ascorbic Acid Ascorbic Acid

	Co carotal Econor							
Co-crystal Former	Functional Group	Interacting Group	Group					
Asparadine	Amine	alcohol	ketone	thiol	amide	amine	analine	phenol
Asparadine	Amide	alcohol	ketone	thiol	amide	amine	analine	phenol
Asparagine	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
Aspartic Acid	Amine	alcohol	ketone	thiol	amide	amine	analine	phenol
Aspartic Acid	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
:	•							Carboxylic
Benzenesulfonic Acid	Sulfonic Acid	pyridine	ketone	aldehyde	ether	ester	amide	Acid
Benzoic Acid	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
Caffeine	Ketone	alcohol		thiol	amide	amine,	analine	phenol
Camphoric acid	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine -	phenol
Capric acid	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
	Ketone	alcohol		thiol	amide	amine	analine	phenol
Genistein	Phenoi	amine	amide	sulfoxide	_ C _	pyridine	cyano	aldehyde
Genistein	Ether	aromatic-N	amide	amine	aromatic_s	Sp2 amine	sulfoxide	chlorate
Cinnamic acid	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
Citric Acid	Alcohol	alcohol	ketone	thiol	amide	amine	analine	phenol
Citric Acid	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
•				•	•			*carboxilic
Clemizole	Pyrrolidine	*alcohol	pyridinium	•	*amide	nitro	*amine	acid
Cyclamic Acid	Amine	alcohol	ketone	thiol	amide	amine	analine	phenol
		·	·					Carboxylic
Cyclamic Acid	Sulfonic Acid	pyridine	ketone	aldehyde	ether	ester	amide	Acid
Cysteine	Amine	alcohol	ketone	thiol	amide	amine	analine	phenol
Öysteine	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
		carboxylic						
Cysteine	Thiol	acid	sodium	aldehyde	ketone	Z	cadminm	
Dimethylglycine	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
Dimethylglycine	Amine	alcohol	ketone	thiol	amide	amine	analine	phenol
Ď-ribose	Ether	aromatic-N	amide	amine	aromatic_s	Sp2 amine	sulfoxide	chlorate
D-ribose	Alcohol	alcohol	ketone	thiol	'amide	amine	analine	phenol
Fumaric Acid	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
Galactaric acid	Carboxylic Acid	alcohol	ketone	thio l	amide	amine	analine	phenol
Galactaric acid	alcohol	alcohol	ketone	thiol	amide	amine		phenol
Chrysin	Ketone	alcohol		thio	amide	amine	analine	Iphenol

Former	. otoda	Culfoto	. Jenger	irrate	invidine.		carboxilic acid	metals
:	phosphate	Sulfate	:	nitrate	pyridine		Carboxylic Acid	metals
Asparagine	phosphate	sulfate		nitrate	pvridine		carboxilic acid	metals
<u>.0</u>	phosphate	sulfate		nitrate	pyridine		carboxilic acid	metals
Aspartic Acid	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
						lo do lo		
Benzenesultonic Acid	amine	metals	<u>.</u>	461	-	alconol	, populio poid	motole
Acid	prosphare	Sulfate		nitrate	pyriaine		Carboxilic acid	metals
	prosphate	Sulfate	Sullone		pyridine		Carboxyllo Acid	metals
	phosphate	Sulfate	• .	nitrate	pyridine		carboxilic acid	metals
Capile acid	phosphate	sulfate		nitrate	ovridine		Carboxylic Acid	metals
Genistein	- 1	alchohol	:	ester	ether	n-oxide	chlorine	fluorine
	chlorine	 - 	cyano	ester	amine	nitro	nitrate	bromine
acid	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
	phosphate	sulfate	!	nitrate	pvridine		Carboxylic Acid	metals
•	phosphate	Sulfate		nitrate	pyridine		carboxilic acid	metals
		_		:	•			
Clemizole	*sulfonamide	*ketone	ether	triazole		ammonium	oxime	*chlorine
Cyclamic Acid	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Octobario Acid	amine	metals	thioether		Sulfate	alcohol	n a colombia	
•	phosphate	sulfate		nitrate	pvridine		carboxilic acid	metals
	phosphate	sulfate	i ·	nitrate	pyridine		carboxilic acid	metals
	·······································	chloring	·	# i i o o c t o o			ď	ฮ์
Cysteine	al sellic phosphoto			polassium pitroto			orbovillo poid	metale
Dimothidakeine	phosphate	Sulfate	oulfone	muaic Diffusio	pyridine		Carboxilic acid	metals
:	chlorine	· }	cvano	ester	amine	nitro	nitrate	bromine
	phosphate	sulfate	-	nitrate	pyridine		Carboxylic Acid	metals
Acid	phosphate	sulfate	• •	nitrate	pyridine		carboxilic acid	metals
	phosphate	sulfate		nitrate	pyridine		carboxilic acid	metals
Galactaric acid	phosphate	sulfate	sulfone	nitrate	pyridine	carboxilic acid	metals	aldehyde
Chrysin	pilospilate	Sullale	٦	milate	pyridine		Car boxylic Acid	metals

Co-crystal Former					•			
Asparadine	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Asparacine	aldehyde	ester		cyano		furan	bromine	chlorine
Asparagine	aldehyde	ester		cyano		furan	bromine	chlorine
Aspartic Acid	aldehvde	ester		cyano		furan	bromine	chlorine
Aspartic Acid	aldehyde	ester	ether	cyano		furan	bromine	chlorine
	!							
Benzenesulfonic Acid			:	,	•			•
Benzoic Acid	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Caffeine	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Camphoric acid	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Capric acid	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Genistein	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Genistein	bromine	iodine	ketone	sulfonic acid	sulfate	phosphate	phosphonic acid	carboxylic acid
Genistein	aldehyde	ketone	peroxide	epoxide			heterocyclic-S	iodine
Cinnamic acid	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Citric Acid	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Citric Acid	aldehyde	ester	ether	cyano		furan	bromine	chlorine
			n-heterocyclic	1				• -
Clemizole		thiol	ning	thionedisulfide pyrrolidindione		iodine	hydrazone	thiocyanate
Čyclamic Acid	aldehyde	ester	ether	cyano	•	furan	bromine	chlorine
Cyclamic Acid	: oldohudo	petor	Jogge	, ,		first	di di di	chlorina
	aldehyde aldehyde	ester	ether	Cyano		firm	bromine	chlorine
				2		; ;		
Cysteine	. .							
Dimethylglycine	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Dimethylglycine	aldehyde	ester	ether	cyano		furan	bromine	chlorine
D-ribose	aldehyde	ketone	peroxide	epoxide			heterocyclic-S	iodine
D-ribose	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Fumaric Acid	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Galactaric acid	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Galactaric acid	ester	ether	•		furan	bromine	chlorine	s-heterocyclic
Chrysin	aldehyde	ester	ether	cyano		furan	bromine	chlorine

Co-crystal Former	s-heterocyclic	pvridine	Cvano	n-heterocyclic	ketone	phosphate ester	
Asparagine	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Asparadine	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Aspartic Acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Aspartic Acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
 Renzenesulfonic Acid						. •	
Benzoic Acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Caffeine	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Camphoric acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Capric acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Genistein	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Genistein	nitro	sulfone	analine				
Genistein	ester	ether	carboxylic acid	suifate	sulfone		alcohol
Cinnamic acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Citric Acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Citric Acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	•
				1			
Clemizole	*bromine	•	hydroxamic acid	cyano	carboxamide	*sulfonic acid	*phosphoric acid
Cyclamic Acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Cyclamic Acid							
Cysteine	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Cysteine	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Cycteine							
Dimethylalycine	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Dimethylglycine	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
D-ribose	ester	ether	carboxylic acid	sulfate	sulfone		alcohol
D-ribose	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	. :
Fumaric Acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Galactaric acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	:
Galactaric acid	pyridine	cyano	n-heterocyclic	ketone	phosphate ester		fluorine
Chrysin	s-heterocyclic	byndine	cyano	n-heterocyclic	ketone	phosphate ester	

co-crystal rotmer	A	-		00.74				thioures
Asparagine	nuonu	саграшате	Imidazoie	ا تا 1	•		N-502	מונוסמובם
Asparagine	fluorine	carbamate	imidazole	BF4	·- ·		N-SO2	rniourea
Asparagine	fluorine	carbamate	imidazole	BF4	• ••		N-S02	thiourea
Aspartic Acid	fluorine	carbamate	imidazole	BF4			N-S02	thiourea
Aspartic Acid	fluorine	carbamate	imidazole	BF4			N-S02	thiourea
								•
Benzenesulfonic Acid				ì			2	thiorito
Benzoic Acid	inorine .	carpamate	Imidazole	4 1			N-502	thiourea
	fluorine	carbamate	imidazole	8 4	•		N-802	tniourea
Camphoric acid	fluorine	carbamate	imidazole	BF4			N-S02	thiourea
Capric acid	fluorine	carbamate	imidazole	BF4	•		N-SO2	thiourea
Genistein	fluorine	carbamate	imidazole	BF4			N-S02	thiourea
Genistein		1						
Genistein	• •	phospphate	cyanamide					
Cinnamic acid	fluorine	carbamate	imidazole	BF4			N-SO2	thiourea
•	fluorine	carbamate	imidazole	BF4			N-S02	thiourea
	fluorine	carbamate	imidazole	BF4			N-SO2	thiourea
	. :		:					
:	N-oxide	ester	ether	fluorine	acetate	thione	dithiadiazocyclopentadienyl	
Cyclamic Acid	fluorine	carbamate	imidazole	BF4			N-S02	thiourea
Cyclamic Acid								
:	fluorine	carbamate	imidazole	BF4	•		N-SO2	thiourea
	fluorine	carbamate	imidazole	BF4		•	N-S02	thiourea
		-						
Cysteine	fluorine	carbamate	imidazole	BF4			-SO2	thiourea
Dimethylaycine	fluorine	carbamate	imidazole	BF4			-805 N-802	thiourea
		phospphate	cyanamide	1				
	fluorine	carbamate	imidazole	BF4			N-SO2	thiourea
Fumaric Acid	fluorine	carbamate	imidazole	BF4			N-S02	thiourea
Galactaric acid	fluorine		imidazole	BF4	-		N-S02	thiourea
ric acid	carbamate		Ì					
Chrysin	fluorine	carbamate	imidazole	BF4			N-SO2	thiourea

Some of letters of			
Co-crystal Former			
Asparagine	e lodine		;
Asparagine	iodine	epoxide	peroxide
Asparagine	iodine		
Aspartic Acid	iodine		
Aspartic Acid	iodine		
Benzenesulfonic Acid			
Benzoic Acid	iodine		
Caffeine	iodine		
Camphoric acid	iodine		
Capric acid	iodine		
Genistein	iodine		
Genistein		.	
Genistein			
Cinnamic acid	iodine		
Citric Acid	iodine	epoxide	
Citric Acid	iodine		
Clemizole			
Cyclamic Acid	iodine		
Cyclamic Acid	- - - -		- •
Cysteine			
Cysteine	:		_
Dimethylglycine	odine		
Dimemyigiyarine	<u> </u>		
in increase	iodine	epoxide	
Firmaric Acid	iodine	_	•
Salactaric acid	iodine		
Galactaric acid			
Chrysin	iodine		•

	Co-cretal Former							
Co-crystal Former	Functional Group	Interacting Group	Group					
Chysin	Phenol	amine	lamide	sulfoxide	C	pyridine	cyano	aldehyde
Christian	Ether	aromatic-N	amide	amine	aromatic_s	Sp2 amine	sulfoxide	chlorate
Gentisic acid	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
Gentisic acid	Phenol	amine	amide	sulfoxide	<u>,</u> c	pyridine	cyano	aldehyde
Glucamine N-methyl	alcohol	alcohol	ketone	thiol	amide	amine	analine	phenol
Glucamine N-methyl	Amine	alcohol	ketone	thiol	amide	amine	analine	phenol
Gluconic Acid	Alcohol	alcohol	ketone	thiol	amide	amine	analine	phenol
Gluconic Acid	.Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
Glucosamine	alcohol	alcohol	ketone	thiol	amide	amine	analine	phenol
Glucuronic acid	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
Glucuronic acid	alcohol	alcohol	ketone	thio	amide	amine	analine	phenol
Glucuronic acid	, Aldehyde	alcohol	ketone	thiol	amide	amine	analine	phenol
Glutamic Acid	Amine	alcohol	ketone	thiol	amide	amine	analine	phenol
Glutamic Acid	Carboxylic Acid	alcohoí	ketone	thiol	amide	amine	analine	phenol
Glutamine	Amine	alcohol	ketone	thiol	amide	amine	analine	phenol
Glutamine	Amide	alcohol	ketone	thiol	amide	amine	analine	phenol
Glutamine	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
Glutaric Acid	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
Glycine	Amine	alcohol	ketone	thiol	amide	amine	analine	phenol
Glycine	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
Glycolic Acid	Alcohol	alcohoi	ketone	thiol	amide	amine	analine	pheno!
Givcolic Acid	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
Hippuric Acid	Amide	alcohol	ketone	thiol	amide	amine	analine	loueyd.
Hippuric Acid	Amine	alcohol	ketone	thiol	amide	amine	analine	phenol
Hippuric Acid	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	Janaline	phenol
Histidine	Amine	alcohol	ketone	thiol	,amide	amine	analine	phenol
Histidine	Carboxylic Acid	alcohol	ketone	thiol	'amide	amine	analine	phenol
		- ·				··· -		
	-				~ ~~		••	.
Histidine	Imidazole	imidazole	chlorine	acetamide	carboxylate		thione	nitro
Hydroquinone	Alcohol	alcohol	ketone	Fio:	amide	amine	analine	phenol
Hydroquinone	Phenol	amine	amide	sulfoxide thiol	ت. mide	pyridine	cyano	jaldenyde ohenol
IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII								

Co-crystal Former							,	
Chrysin		alchohol		ester	ether	n-oxide	chlorine	fluorine
Chrysin	chlorine		cyano	ester	amine	nitro	nitrate	bromine
Gentisic acid	phosphate	sulfate	sulfone	nitrate	pyridine	-	carboxilic acid	metals
Gentisic acid		alchohol		ester	ether	n-oxide	chlorine	fluorine
Glucamine, N-methyl	phosphate	sulfate	sulfone	nitrate	pyridine	carboxilic acid	metals	aldehyde
Glucamine, N-methyl	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Gluconic Acid	phosphate	sulfate	sulfone	nitrate	pyridine		Carboxylic Acid	metals
Gluconic Acid	phosphate	sulfate	sulfone	nitrate	pyridine	•••	carboxilic acid	metals
Glucosamine	phosphate	sulfate	sulfone	nitrate	pyridine		Carboxylic Acid	metals
Glucuronic acid	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Glucuronic acid	phosphate	sulfate	sulfone	nitrate	pyridine	carboxilic acid	metals	aldehyde
Glucuronic acid	phosphate	sulfate	sulfone	nitrate	pyridine	aromatic	carboxilic acid	metals
Glutamic Acid	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Glutamic Acid	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Glutamine	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Glutamine	phosphate	Sulfate	sulfone	nitrate	pyridine		Carboxylic Acid	metals
Glutamine	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Glutaric Acid	phosphate	sulfate	sulfone	nitrate	pyridine	• • • • •	carboxilic acid	metals
Glycine	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Glycine	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Giycolic Acid	phosphate	sulfate	sulfone	nitrate	pyridine		Carboxylic Acid	metals
Glycolic Acid	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Hippuric Acid	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Hippuric Acid	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Hippuric Acid	phosphate	sulfate	sulfone	nitrate	pyridine	.	carboxilic acid	metals
Histidine	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Histidine	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
							•	
-		<i>.</i>						
Histidine	cyanamide	ketone	cyano	Carboxylic Acid	alcohol		thiol	amine
Hydroquinone	phosphate	sulfate	sulfone	nitrate	pyridine		Carboxylic Acid	metals
Hydroquinone	otodooda otodooda	:alchohol	واالومان	ester	ether	n-oxide	chlorine	fluorine
limidazoie	priospriate	Sullaid	DIIOIIG	ııııaıc	Dilling		Cal DOXIIIC acid	meldis

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Co-crystal Former		;						biog cilysodrog
Chrysin	bromine	iodine	ketone	acid	sulfate	phosphare	phosphonic acid	carboxylic acid
Chrysin	aldehyde	ketone	peroxide	epoxide			neterocyclic-S	lodine
Gentisic acid	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Gentisic acid	bromine	iodine	ketone	sulfonic acid	sulfate	phosphate	phosphonic acid	carboxylic acid
Glucamine N-methyl	ester	ether	cyano	• ==	furan	bromine	chlorine	s-heterocyclic
Glicamine N-methyl	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Gluconic Acid	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Gluconic Acid	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Glucosamine	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Glucuronic acid	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Glucuronic acid	ester	ether	cyano		furan	bromine	chlorine	s-heterocyclic
Glucuronic acid	aldehyde	ester	ether	cyano	•	furan	bromine	chlorine
Glutamic Acid	aldehyde	ester	ether	cyano	•	furan	bromine	chlorine
Glutamic Acid	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Glutamine	aldehyde	ester	ether	cyano	••	furan	bromine	chlorine
Glutamine	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Glutamine	aldehyde	ester	ether	cyano	•	furan	bromine	chlorine
Glutaric Acid	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Giveine	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Glycine	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Glycolic Acid	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Glycolic Acid	aldehyde	ester	ether .	cyano	-	furan	bromine	chlorine
Hippuric Acid	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Hippuric Acid	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Hippuric Acid	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Histidine	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Histidine	aldehyde	ester	ether	cyano	•	furan	bromine	chlorine
	phosphinic							
	acid						-	
	hemihydrat	··· ·						
Histidine	Φ	chlorine sulfonyl	sulfonyl	sulfoxide	amide	fluorine	sulfonate ester	
Hydroquinone	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Hydroquinone	bromine	iodine	ketone	sulfonic acid	sulfate	phosphate	phosphonic acid	carboxylic acid
IMIdazoie	aideilyde	23(2)	פוויכו	cyailo	-	iniair	חסווווום	

Co-crystal Former							
	nitro	sultone	analine			_	
Chosin	ester	ether	carboxvlic acid	sulfate	sulfone		alcohol
Gentisic acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Gentisic acid	nitro	suffone	analine	•			
Gucamine N-methyl	pvridine	cyano	n-heterocyclic	ketone	phosphate ester	•	fluorine
Glucamine N-methyl	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	. ,
Gluconic Acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Gluconic Acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	••
Glucosamine	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Glucuronic acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Glucuronic acid	pyridine	cyano	n-heterocyclic	ketone	phosphate ester		fluorine
Glucuronic acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Glutamic Acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Glutamic Acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Glutamine	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Glutamine	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Glutamine	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	- -
Glutaric Acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Glycine	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Glycine	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Givcolic Acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Glycolic Acid -	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Hippuric Acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Hippuric Acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Hippuric Acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	•
Histidine	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Histidine	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
				*********	-	_	-
Histidine	, .						
Hydroquinone	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Hydroquinone	nitro	sulfone	analine		0 0 0 1	nhoenhata aetar	
Imidazole	ישיבווםנים ובי	Pynding	cyalio	חווילים ווייווי	אפוסוום.	הוספחומים בפיכו	

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	carbamate carbamate		BF4	•		N-S02	thiourea
	carbamate	imidazole	BF4			N-S02	thionrea
			BF4			N-S02	thionrea
	carbamate	imidazole	BF4	•		N-S02	thiourea
Glutamine carl	carbamate	imidazole	BF4			N-S02	thionrea
	carbamate	imidazole	BF4			N-S02	thiourea
	carbamate	imidazole	BF4			N-S02	thiourea
	carbamate	imidazole	BF4			N-S02	thiourea
Acid	carbamate	imidazole	BF4			N-S02	thionrea
	carbamate		BF4			N-S02	thiourea
fluorine	carbamate	imidazole	BF4			N-S02	thiourea
fluorine	carbamate	imidazole	BF4	•		N-S02	thiourea
fluorine	carbamate	imidazole	BF4			N-S02	thiourea,
fluorine	carbamate	imidazole	BF4			N-S02	thiourea
Histidine carl	carbamate	imidazole	BF4	•	-	N-S02	thiourea
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		,					
		:		•••			
fluorine	carbamate	imidazole	BF4	٠		N-S02	thiourea
Injoinduinoire finidazole carl	carbamate	imidazole	BF4	.		N-SO2	thiourea

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iodine	
	iodine epoxide
Hydroquinone	
Imidazole	iodine

TABLE

	Co-crystal Former	-						
Co-crystal Former	Functional Group	Interacting Group	Group					
Inriflavone	Ether	aromatic-N	amide	amine	aromatic_s	Sp2 amine	sulfoxide	chlorate
lociflacone	Ketone	alcohol		thiol	amide	amine	analine	phenol
	Amine	alcohol	ketone	thio	amide	amine	analine	phenol
soletine	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
lactobionic acid	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
I actobionic acid	alcohol	alcohol	ketone	thiol	amide	amine	analine	phenol
l actobionic acid	Ether	aromatic-N	amide	amine	aromatic_s	Sp2 amine	sulfoxide	chlorate
	Carboxylic Acid	alcohol	ketone	thio	amide	amine	analine	phenol
l eucine	Carboxylic Acid	aicohol	ketone	thiol	amide	amine	analine	phenol
1 elicine	Amine	alcohol	ketone	thio	amide	amine	analine	phenol
l vsine	Amine	alcohol	ketone	thiol	amide	amine	analine	phenol
l vaine	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
Maleic	Carboxylic Acid	alcohol	ketone	thio	amide	amine	analine	phenol
Malic Acid	Alcohol	alcohol	ketone	thiol	amide	amine	analine	phenol
Malic Acid	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
Malonic	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
Mandelic Acid	Alcohol	alcohol	ketone	thiol	amide	amine	analine	phenol
Mandelic Acid	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
Methionine	Amine	alcohol	ketone	thiol	amide	amine	analine	phenol
Methionine	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
Methionine	Thioether	Z	amide	amine	ω ₁	Sp2 amine	sulfoxide	chlorate
				-	<u> </u>			*Carboxylic
Nicotinamide	Pyridine	*alcohol		•	*amide	nitro	*amine	Acid
Nicotinamide	Amide	alcohol	ketone	thiol	amide	amine	analine	phenol
Nicotinic Acid	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
								*Carboxylic
Nicotinic Acid	Pyridine	*alcohol		÷	*amide	nitro	*amine	Acid
Orotic acid	Carboxylic Acid	alcohol	ketone	thio	amide	amine	analine	phenol
Orotic acid	Lactam	alcohol	ketone	thiol	amide	amine	analine	phenol
Oxalic acid	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
Palmitic acid	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
Pamoic acid	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
Pamoic acid	alcohol	alcohol	ketone	thiot	amide	amine	analine	phenol
Pamoic acid	Phenol	amine	amide	sulfoxide	n	pyridine	cyano	aldehyde

Co-crystal Former								,
jpriflavone	chlorine		cyano	ester		initro	nitrate	promine
lipriflavone	phosphate	sulfate	sulfone	nitrate	pyridine		Carboxylic Acid	metals
Soleucine	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Isoleucine	phosphate	sulfate	Sulfone	nitrate	pyridine	,	carboxilic acid	metals
Tactobionic acid	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Lactobionic acid	phosphate	sulfate	sulfone	nitrate	pyridine	carboxilic acid	metals	aldehyde
Lactobionic acid	chlorine		cyano	ester	amine	nitro	nitrate	bromine
Lauric acid	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	
Leucine	phosphate	sulfate	sulfone	nitrate	pyridine		Carboxylic Acid	metals
Leucine	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Lysine	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Lysine	phosphate	sulfate	Sulfone	nitrate	pyridine		carboxilic acid	metals
Maleic	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Malic Acid	phosphate	sulfate	sulfone	nitrate	pyridine	•••	Carboxylic Acid	metals
Malic Acid	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Majonic	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Mandelic Acid	phosphate	sulfate	sulfone	nitrate	pyridine		Carboxylic Acid	metals
Mandelic Acid	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Methionine	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Methionine	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Methionine	chlorine		cyano	ester	amine	nitro	nitrate	bromine
Nicotion	epimenojins.	*ketone	ether	triazole	-		oxime	*chlorine
Nicotipomide	ohosohate	Sulfate	Sulfone	nitrate	ومنامنيهن.		Carbovylic Acid	metals
Nicotinic Acid	phosphate	sulfate	sulfone	nitrate	pyridine	-	Carboxylic Acid	metals
Nicotinic Acid	'*sulfonamide	*ketone	ether	triazole		ammonium	oxime	*chlorine
Orotic acid	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	
- Orotic acid	phosphate	sulfate	sulfone	nitrate	pyridine		Carboxylic Acid	metals
Oxalic acid	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	
Palmitic acid	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	
Pamoic acid	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	
Pamoic acid	phosphate	sulfate	sulfone	nitrate	pyridine	carboxilic acid	metals	aldehyde
Pamoic acid		alchohol		ester	ether	n-oxide	chlorine	fluorine

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aldehyde ester ether cyano furan bromine aldehyde ketone peroxide epoxide Ag Se heterocyclic-S n-heterocyclic thiol ing there cyano furan bromine aldehyde ester ether cyano aldehyde ester ether cyano furan bromine aldehyde ester ether cyano furan bromine aldehyde ester ether cyano furan bromine ester ether cyano furan bromine aldehyde ester ether cyano furan bromine chlorine ester ether cyano furan bromine chlorine	Methionine	aldehyde	ester	ether	cyano		furan	bromine	cniorine
aldehyde ketone peroxide epoxide Ag Se heterocyclic-S n-heterocyclic hiole ing thiol ring thiol ring thiol ring thiol ring cyano thiol ring aldehyde ester ether cyano aldehyde ester ether cyano thran bromine ester ether cyano thran bromine cyano thran bromine aldehyde ester ether cyano thran bromine cyano thran bromine cyano thran bromine cyano thran bromine chlorine ester ether cyano thran bromine chlorine chlorine cyano thran bromine chlorine chlorine cyano thran bromine chlorine chlor	Methionine	aldehyde	ester	ether	cyano		furan	promine	chlorine
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thiol ring thionedisulfide pyrrolidindione iodine hydrazone ester ether cyano furan bromine aldehyde ester ether cyano aldehyde ester ether cyano aldehyde ester ether cyano aldehyde ester ether cyano furan bromine aldehyde ester ether cyano furan bromine ester ether cyano furan bromine ester ether cyano furan bromine chlorine ester ether cyano furan bromine aldehyde ester ether cyano furan bromine chlorine cyano furan bromine chlorine cyano furan bromine chlorine		-		n-heterocyclic	· : .				
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d aldehyde ester ether cyano furan bromine ester ether cyano furan bromine bromine cyano furan bromine aldehyde ester ether cyano furan bromine ester ether cyano furan bromine bromine chlorine	Nicotinamide	ialdehyde	ester	ether	cyano		furan	bromine	chlorine
thiol ring thionedisulfide pyrrolidindione iodine hydrazone aldehyde ester ether cyano furan bromine aldehyde ester ether cyano aldehyde ester ether cyano furan bromine ester ether cyano furan bromine cyano furan bromine ester ether cyano furan bromine chlorine ester ether cyano furan bromine chlorine chlorine cyano furan bromine chlorine chlorine cyano furan bromine chlorine	Nicotinic Acid	aldehyde	ester	ether	cyano		furan	bromine	chlorine
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aldehyde ester ether cyano furan bromine aldehyde lester ether cyano furan bromine chlorine ester ether cyano furan bromine chlorine ketone sulfanic acid sulfate phosphate phosphonic acid	Oxalic acid	ⁱ aldehyde	ester	ether	cyano		furan	bromine	chlorine
aldehyde ester ether cyano furan turan bromine chlorine sulfanic acid sulfate chambate chlorine	Palmitic acid	aldehyde	ester	ether	cyano		furan	bromine	chlorine
ester ether cyano furan bromine chlorine sulfanic acid sulfate phosphate phosphonic acid	Pamoic acid	aldehyde	ester	ether	cyano		furan	bromine ·	chlorine
indine lytetonic acid is lifety acid in the substitution of the su	Pamoic acid	ester	ether	cyano		furan	bromine	chlorine	s-heterocyclic
Single State of the state of th	Pamoic acid	bromine	iodine	ketone	sulfonic acid	sulfate	phosphate	phosphonic acid	carboxylic acid

Co-crystal Former							
Ipriflavone	ester	ether	carboxylic acid	sulfate	sulfone		alcohol
Ipriflavone	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Soleucine	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Soleucine	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
lactobionic acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Lactobionic acid	pyridine	cyano	n-heterocyclic	ketone	phosphate ester		fluorine
Lactobionic acid	ester	ether	carboxylic acid	sulfate	sulfone		alcohol
Lauric acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Leucine	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	- •
Leucine	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Lysine	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	• • •
Lysine	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Maleic	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Malic Acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	· - .
Malic Acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Malonic	s-heterocyclic	pyridine	cyano	in-heterocyclic	ketone	phosphate ester	
Mandelic Acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Mandelic Acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Methionine	s-heterocyclic	pyridine	cyano	in-heterocyclic	ketone	phosphate ester	
Methionine	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Methionine	ester	ether	carboxylic acid	sulfate	sulfone		alcohot
Nicotionide	*bromine		hvdroxamic acid	Cvano	carboxamide	· •*sulfonic acid	*phosphoric acid
Nicotinamide	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Nicotinic Acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	••
Nicotinic Acid	*bromine		hydroxamic acid	cyano	carboxamide	*sulfonic acid	*phosphoric acid
Orotic acid	s-heterocyclic	pyridine	cyano	in-heterocyclic	ketone	phosphate ester	
Orotic acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Oxalic acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Palmitic acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Pamoic acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	•
Pamoic acid	pyridine	cyano	n-heterocyclic	ketone	phosphate ester		fluorine
Pamoic acid	nitro	sultone	analine				

Co-crystal ronner			:	٠	•			
Ipriflavone	•	phospphate	cyanamide				(()	
Iprifiavone	fluorine	carbamate	imidazole	BF4	-		N-SO2	thiourea
Isoleucine	fluorine	carbamate	imidazole	BF4	_		N-S02	thiourea
Isoleucine	fluorine	carbamate	imidazole	BF4	•		N-S02	thiourea
lactobionic acid	fluorine	carbamate	imidazole	BF4	• • • •		N-S02	thionrea
Lactobionic acid	carbamate	imidazole	BF4					
Lactobionic acid		phospphate	cyanamide					
Lauric acid	fluorine	carbamate	imidazole	BF4	•		N-S02	thiourea
Leucine	fluorine	carbamate	imidazole	BF4			N-S02	thiourea
Leucine	fluorine	carbamate	imidazole	BF4			N-S02	thiourea
Lysine	fluorine	carbamate	imidazole	BF4			N-S02	thiourea
Lysine	fluorine	carbamate	imidazole	BF4	•••		N-S02	thiourea
Maleic	fluorine	carbamate	imidazole	BF4	_		N-S02	thiourea
Malic Acid	fluorine	carbamate	imidazole	BF4			N-S02	thiourea
Malic Acid	fluorine	carbamate	imidazole	BF4			N-S02	thiourea
Malonic	fluorine	carbamate	imidazole	BF4			N-SO2	thiourea
Mandelic Acid	fluorine	carbamate	imidazole	BF4			N-S02	thionrea
Mandelic Acid	fluorine	carbamate	imidazole	BF4			N-S02	thiourea
Methionine	fluorine	carbamate	imidazole	BF4	•		N-SO2	thiourea
Methionine	fluorine	carbamate	imidazole	BF4			N-S02	thionrea
Methionine		phospphate						
Nicotinamide	N-oxide	ester	ether	fluorine	acetate	thione	dithiadiazocyclopentadienyl	
Nicotinamide	fluorine	carbamate	imidazole	BF4			N-S02	thionrea
Nicotinic Acid	fluorine	carbamate	imidazole	8F4			N-S02	thiourea
Nicotinic Acid	N-oxide	ester	ether	fluorine	acetate	thione	dithiadiazocyclopentadienyl	
Orotic acid	fluorine	carbamate	imidazole	BF4			N-S02	thionrea
Orotic acid	fluorine	carbamate	imidazole	BF4	-		N-S02	thiourea
Oxalic acid	fluorine	carbamate	imidazole	BF4			N-S02	thiourea
Palmitic acid	fluorine	carbamate	imidazole	BF4			N-S02	thiourea
Pamoic acid	fluorine	carbamate	imidazole	BF4	· -		N-S02	thiourea
Pamoic acid	carbamate	imidazole	BF4		. •			
Pamoic acid								

	epoxide epoxide	epoxide peroxide epoxide peroxide
iodine rodine odine	odine e e	iodine iodine iodine iodine iodine iodine iodine iodine iodine e
Co-crystal Former prifiavone prifiavone Isoleucine Isoleucine Iactobionic acid	Lactobionic acid Lactobionic acid Lauric acid Lauric acid Lauric acid Lauric acid Lauric acid Lauric acid Lysine Malic Acid Malic Acid Mandelic Acid Mandelic Acid Methionine Methionine	Nicotinamide Nicotinamide Nicotinic Acid Nicotinic Acid Orotic acid Ovalic acid Palmitic acid Pamoic acid Pamoic acid

TABLE II

	Co caretal Ecomor							
Correstal Former	Functional Group	Interacting (Group					
Phenylalanine	Amine	alcohol ketone	ketone	thiol	amide	amine	analine	phenol
Phenylalanine	Carboxylic Acid	•	ketone	thiol	amide		analine	phenol
Piperazine	Amine		ketone	thiot	amide	amine	analine	phenol
Procaine	Amine		ketone	thiol	iamide	amine	analine	phenol
Procaine	·Ketone	alcohol		thiol	,amide	amine	analine	phenol
Proline	Carboxylic Acid		ketone	thio	'amide	amine	analine	phenol
Proline	Amine		ketone	thiol	amide	amine	analine	phenol
	••				• •			Carboxylic
p-Toluenesulfonic acid	Sulfonic Acid	pyridine	ketone	aldehyde	ether	ester	amide	Acid
Pyridoxamine	Aicohol	alcohol	ketone	thiol	amide	amine	analine	phenol
Pyridoxamine	Amine	alcohol	ketone	thiol	amide	amine	analine	phenoi
				_	- ••		-	*Carboxylic
Pyridoxamine	Pyridine	*alcohol		*-	,*amide	nitro	-amine	Acid
Pyridoxine	•	i	•	** **	ener ener			*Carboxylic
(4-Pyridoxic Acid)	Pyridine	*alcohol	pyridinium	*	*amide	nitro	*amine	Acid
Pyridoxine								
(4-Pyridoxic Acid)	Alcohol	alcohol	ketone	thiol	amide	amine	analine	phenol
Pyroglutamic acid	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
Pyroglutamic acid	Lactam	alcohol	ketone	thiol	amide	amine	analine	phenol
Quercetin	Ketone	alcohol	·	thiol	amide	amine	analine	phenol
Quercetin	Phenol	amine	amide	sulfoxide	c	pyridine	cyano	aldehyde
Quercetin	Ether		amide	amine	aromatic_s	Sp2 amine	sulfoxide	chlorate
Resveratrol	Ketone		:	thiol	amide	amine	analine	phenol
Resveratrol	Phenol		amide	sulfoxide	c	pyridine	cyano	aldehyde
Saccharin	Amide	alcohol	ketone	thiol	amide	amine	analine	phenol
Saccharin	Ketone	alcohol		thiol	amide	amine	analine	phenol
1 ,					-			Carboxylic
Saccharin	Sulfoxide	pyridine	ketone	aldehyde	ether	ester	amide	Acid
Saccharin	Amine	alcohol	ketone	thiol	amide		analine	phenol
Salicylic Acid	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
Salicylic Acid	Alcohol	alcohol	ketone	thiot	amide	amine	analine	phenol
Salicylic Acid, 4-amino	Carboxylic Acid		ketone	thiol	amide	amine	analine	phenol
Salicylic Acid, 4-amino	alcohol	alcohol	ketone	thiol	amide		analine	phenol
Salicylic Acid, 4-amino	,Amine	alcohol	ketone	thiol	amide	amine	analine	phenol

Phenylalanine								
	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Phenylalanine	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Dinerazine	phosphate	•		nitrate	ovridine		carboxilic acid	metals
	nhosphate		•	nitrate	pvridine		carboxilic acid	metals
	operation of the contract of t			nitrate	a di pinio		Carboxviic Acid	metals
Procaine	pilospilate	Solidie	a lone	יוות מוכ	3		- Carlondynovina	9
Proline	phosphate	sulfate	sultone	nitrate	pyndine		carboxilic acid	metais
Proline	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
:	-	1-4-1	11.5		16.4		-	
p-Toluenesultonic acid	amine	metais	moemer		surate	alconol	- -	
Pyridoxamine	phosphate	sulfate	sultone	nitrate	pyridine	-	Carboxylic Acid	metals
Pyridoxamine	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
	:		•				•	
Pyridoxamine	sultonamide	_ketone	ether	triazole		ammonium	OXILLE	-cnlorine
Pyridoxine						-		
(4-Pyridoxic Acid)	*sulfonamide	*ketone	ether	triazole		ammonium	oxime	*chlorine
Pyridoxine								
(4-Pyridoxic Acid)	phosphate	sulfate	sulfone	nitrate	pyridine		Carboxylic Acid	metals
Pvroglutamic acid	phosphate	sulfate	Sulfone	nitrate	pyridine	na maria	carboxilic acid	metals
Pyroglutamic acid	phosphate	sulfate	sulfone	nitrate	pyridine		Carboxylic Acid	metals
Quercetin	phosphate	sulfate	sulfone	nitrate	pyridine	4	Carboxylic Acid	metals
Quercetin	-	alchohol	:	ester	ether	n-oxide	chlorine	fluorine
Orientalia	chlorine		cvano	ester	amine	nitro	nitrate	bromine
Designation	nhosphate	sulfate	Sulfone	nitrate	nvridine	•	Carboxvlic Acid	metals
Resveratrol		alchohol	,	ester	ether	n-oxide	chlorine	fluorine
Saccharin	phosphate	sulfate	suifone	nitrate	pvridine		Carboxvlic Acid	metals
Saccharin	phosphate	sulfate	sulfone	nitrate	pyridine		Carboxylic Acid	metals
1	! ·			:		•		
Saccharin	amine	metals	thioether		sulfate	alcohol		
Saccharin	phosphate	sulfate	sulfone	nitrate	pyridine	***	Carboxylic Acid	metals
Salicylic Acid	phosphate	sulfate	sulfone	nitrate	pyridine	dan.	carboxilic acid	metals
Salicylic Acid	phosphate	sulfate	sulfone	nitrate	pyridine		Carboxylic Acid	metals
Salicylic Acid, 4-amino	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Salicylic Acid, 4-amino	phosphate	sulfate	sulfone	nitrate	pyridine	carboxilic acid	metals	aldehyde
Salicylic Acid. 4-amino	phosphate	sulfate	sulfone	nitrate	pyridine	•	carboxilic acid	metals

Co-crystal Former								
Obenviole	aldehyde	ester	ether	cvano		furan	bromine	chlorine
	abydabic.	actor	ether	Cyano	•	firan	bromine	chlorine
	מותכוואת.		2 10		•	, in the second	bromine	chloring
Piperazine	algenyae	1000 1000 1000 1000 1000 1000 1000 100		cyano				
Procaine	aldehyde	ester	ether	cyano		furan	bromine	chiorine
Procaine	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Proline	aldehyde	ester	ether	cyano	•	furan	bromine	chlorine
Proline	aldehyde	ester	ether	cyano		furan	bromine	chlorine
ن من من من احاد	- -							-
	plotopyde	poter	ether	Clev		firan	bromine	chlorine
Pyridoxamine	aldehyde	ester	ether	cyano		furan	bromine	Chlorine
			n-heterocyclic	•				
Pyridoxamine		thiol	ring	thionedisulfide		iodine	hydrazone	thiocyanate
Pyridoxine	-		n-heterocyclic					
(4-Pyridoxic Acid)		thiol	ning	thionedisulfide pyrrolidindione	oyrrolidindione	iodine	hydrazone	thiocyanate
Pyridoxine				•				
(4-Pyridoxic Acid)	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Pyroglutamic acid	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Pyroglutamic acid	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Quercetin	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Quercetin	bromine	iodine	ketone	sulfonic acid	sulfate	phosphate	phosphonic acid	carboxylic acid
Quercetin	aldehyde	ketone	peroxide	epoxide			heterocyclic-S	iodine
Resveratrol	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Resveratrol	bromine	jodine	ketone	suffonic acid	sulfate	phosphate	phosphonic acid	carboxylic acid
Saccharin	aldehyde	ester	ether	cyano		furan	bromine	chlorine
Saccharin	aldehyde	ester	ether	суапо		furan	bromine	chlorine
Sacrbaria								
Carcharia	aldehode	Pater	ether	Cuevo		firan	hromine	Chlorine
Salicylic Acid	aldehyde	ester	ether	cvano		furan	bromine	chlorine
Salicylic Acid	aldehyde	ester		cyano		furan	bromine	chlorine
Salicylic Acid. 4-amino	aldehyde	ester		cvano		furan	bromine	chlorine
Salicylic Acid, 4-amino	ester	ether	cyano		furan	bromine	chlorine	s-heterocyclic
Salicylic Acid, 4-amino	aldehyde	ester		cyano		furan	bromine	chlorine

Co-crystal Former Phenylalanine Phenylalanine Piperazine Procaine Procaine Proline	s-heterocyclic s-heterocyclic s-heterocyclic s-heterocyclic s-heterocyclic s-heterocyclic	pyridine	cyano cyano cyano cyano cyano cyano	n-heterocyclic n-heterocyclic n-heterocyclic n-heterocyclic n-heterocyclic n-heterocyclic	ketone ketone ketone ketone ketone ketone	phosphate ester phosphate ester phosphate ester phosphate ester phosphate ester phosphate ester	
p-Toluenesulfonic acid Pyridoxamine Pyridoxamine Pyridoxamine	s-heterocyclic s-heterocyclic *bromine	pyridine pyridine	cyano cyano hydroxamic acid	n-heterocyclic n-heterocyclic cyano	ketone ketone carboxamide	phosphate ester phosphate ester *sulfonic acid	*phosphoric acid
Pyridoxine (4-Pyridoxic Acid) Pyridoxine	*bromine		hydroxamic acid	cyano	carboxamide	*sulfonic acid	*phosphoric acid
(4-Pyridoxic Acid) Pyroglutamic acid Pyroglutamic acid Quercetin Quercetin Quercetin Resveratrol Resveratrol Saccharin	s-heterocyclic s-heterocyclic s-heterocyclic nitro ester s-heterocyclic nitro s-heterocyclic s-heterocyclic	pyridine pyridine pyridine pyridine sulfone ether pyridine sulfone pyridine pyridine pyridine pyridine	cyano cyano cyano cyano analine cyano analine cyano cyano cyano	n-heterocyclic n-heterocyclic n-heterocyclic n-heterocyclic n-heterocyclic n-heterocyclic	ketone ketone ketone sulfone ketone ketone	phosphate ester phosphate ester phosphate ester phosphate ester phosphate ester phosphate ester	alcohol
Saccharin Saccharin Salicylic Acid Salicylic Acid, 4-amino Salicylic Acid, 4-amino Salicylic Acid, 4-amino	s-heterocyclic s-heterocyclic s-heterocyclic s-heterocyclic pyridine s-heterocyclic	pyridine pyridine pyridine pyridine cyano pyridine	cyano cyano cyano cyano n-heterocyclic cyano	n-heterocyclic n-heterocyclic n-heterocyclic n-heterocyclic ketone ketone	ketone ketone ketone ketone phosphate ester ketone	phosphate ester phosphate ester phosphate ester phosphate ester phosphate ester	fluorine

Co-crystal Former								
Phenylalanine	fluorine	carbamate	imidazole	BF4	•		N-SO2	thiourea
Phenylalanine	fluorine	carbamate	imidazole	BF4			.N-SO2	thiourea
Piperazine	fluorine	carbamate	imidazole	BF4			N-S02	thiourea
Procaine	fluorine	carbamate	'imidazole	BF4	_		N-SO2	thiourea
Procaine	fluorine	carbamate	imidazole	BF4			N-SO2	thiourea
Proline	fluorine	carbamate	imidazole	BF4			N-S02	thionrea
Proline	fluorine	carbamate	imidazole	BF4			N-S02	thionrea
p-Toluenesulfonic acid		- ·						
Pyridoxamine	fluorine	carbamate	imidazole	BF4			N-SO2	thiourea
Pyridoxamine	fluorine	carbamate	imidazole	BF4			N-S02	thiourea
Pyridoxamine	N-oxide	ester	ether	fluorine	acetate	thione	dithiadiazocyclopentadienyl	
Pyridoxine		* ->		.				
(4-Pyridoxic Acid)	N-oxide	ester	ether	fluorine	acetate	thione	dithiadiazocyclopentadienyl	
Pyridoxine								
(4-Pyridoxic Acid)	fluorine	carbamate	imidazole	BF4			IN-SO2	thionrea
Pyroglutamic acid	fluorine	carbamate	imidazole	BF4			N-SO2	thiourea
Pyroglutamic acid	fluorine	carbamate	imidazole	BF4			N-S02	thionrea
Quercetin	fluorine	carbamate	imidazole	BF4			N-SO2	thiourea
Quercetin							→ •• ••	
Quercetin		phospphate	cyanamide					
Resveratrol	fluorine	carbamate	imidazole	BF4			N-S02	thiourea
Resveratrol								
Saccharin	fluorine	carbamate	imidazole	BF4			N-S02	thiourea
Saccharin	fluorine	carbamate	imidazole	BF4			N-SO2	thiourea
Cochocia							- 12	_
		_					- •	
Saccharin	fluorine	carbamate	imidazole	: 8 F4			N-SO2	thionrea
Salicylic Acid	fluorine	carbamate	imidazole	,BF4	•		N-S02	thiourea
Salicylic Acid	fluorine	carbamate	imidazole	BF4			N-S02	thiourea
Salicylic Acid, 4-amino	fluorine	carbamate	imidazole	BF4			N-S02	thiourea
Salicylic Acid, 4-amino	carbamate	imidazole	BF4					
Salicylic Acid, 4-amino	fluorine	carbamate	imidazole	BF4			N-SO2	thiourea

Co-crystal Former Phenylalanine Phenylalanine Piperazine Procaine Proline	iodine iodine iodine iodine iodine		
p-Toluenesulfonic acid Pyridoxamine Pyridoxamine	iodine	epoxide	
Pyridoxamine Pyridoxine (4-Pyridoxic Acid) Pyridoxine (4-Pyridoxic Acid) Pyroglutamic acid	iodine iodine	epoxide	:
Pyroglutamic acid Quercetin Quercetin Quercetin	odine iodine	eboxide	peroxide
Resveratrol Resveratrol Saccharin Saccharin	odine iodine	epoxide	peroxide
Saccharin Saccharin Salicylic Acid Salicylic Acid, 4-amino Salicylic Acid, 4-amino	iodine iodine iodine iodine	epoxide	

	Co-crystal Former							
Co-crystal Former	Functional Group	Interacting Group	Group					
	Carboxylic Acid	alcohol	ketone					phenol
	Carboxylic Acid	alcohol	ketone					phenol
Serine	Amine	aicohol	ketone					phenol
Serine	Alcohol	alcohol	ketone					phenol
acid	Carboxylic Acid	alcohol	ketone					phenoi
.p.	Carboxylic Acid	alcohol	ketone	thiol	amide	amine	analine	phenol
	Carboxylic Acid	alcohol	ketone					phenol
	Amine	alcohol	ketone					phenol
Threonine	Carboxylic Acid	alcohol	ketone					phenol
Threonine	alcohol	alcohol	ketone					phenol
Tris	Amine	alcohol	ketone					phenol
Tris	Alcohol	alcohol	ketone					phenol
Tryptophan	Amine	alcohol	ketone					phenol
Tryptophan	Carboxylic Acid	alcohol	ketone					phenol
								*carboxilic
Tryptophan	Indole	*alcohol	pyridinium		*amide	nitro	i*amine	acid
		alcohol	ketone					phenol
	Carboxylic Acid	alcohol	ketone					phenol
		alcohol	ketone					phenol
Ùrea	Ketone	alcohol						phenol
Urea		alcohol	ketone	thiol				phenol
Urea		alcohol	ketone					phenol
Valine		alcohol	ketone					phenol
Valine	Carboxylic Acid	alcohol	ketone					phenol
Vitamin K5		alcohol	ketone					phenoi
Vitamin K5		alcohol	ketone					phenol
Xylitol	Alcohol	alcohol	ketone					phenol
			-					

-								
Co-crystal Former								
Sebacic acid	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Serine	phosphate	sulfate	sulfone	nitrate	pyridine		Carboxylic Acid	metals
Serine	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Serine	phosphate	sulfate	sulfone	nitrate	pyridine		Carboxylic Acid	metals
Stearic acid	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Succinic Acid	phosphate	sulfate	sulfone	nitrate	pyridine		Carboxylic Acid	metals
Tartaric Acid	phosphate	sulfate	sulfone	nitrate	pyridine		Carboxylic Acid	metals
Threonine	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Threonine	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Threonine	phosphate	sulfate	sulfone	nitrate	pyridine		Carboxylic Acid	metals
Tris	phosphate	sulfate	sulfone	nitrate	pyridine	_	carboxilic acid	metals
Tris	phosphate	sulfate	sulfone	nitrate	pyridine		Carboxylic Acid	metals
Tryptophan	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Tryptophan	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Tryptophan	*sulfonamide	*ketone	ether	triazole		ammonium	oxime	*chlorine
	phosphate	sulfate		nitrate	pyridine		carboxilic acid	metals
	phosphate	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
	phosphate	sulfate	sulfone	nitrate	pyridine		Carboxylic Acid	metals
	phosphate	sulfate	sulfone	nitrate	pyridine		Carboxylic Acid	metals
Urea	phosphate	sulfate	sulfone		pyridine		carboxilic acid	metals
•	phosphate	sulfate	sulfone		pyridine		Carboxylic Acid	metals
Valine	phosphate	sulfate			pyridine		carboxilic acid	metals
	phosphate	sulfate	sulfone		pyridine		carboxilic acid	metals
	phosphate;	sulfate	sulfone	nitrate	pyridine		carboxilic acid	metals
Vitamin K5	hosphate j	sulfate	sulfone	nitrate	pyridine		Carboxylic Acid	metals
Xylitol	phosphate	sulfate	sulfone	nitrate	pyridine		Carboxylic Acid	metals
-								_

Co-crystal Former								
	aldehyde	ester	ether	cyano		furan	bromine	chlorine
	aldehyde	ester		cyano	-	furan	bromine	chlorine
	aldehyde	ester	ether	cyano	•	furan	bromine	chlorine
	aldehyde	ester		cyano	•	furan	bromine	chlorine
Stearic acid	aldehyde	ester	:	cyano		furan	bromine	chlorine
-	aldehyde	ester		cyano	•	furan	bromine	chlorine
	aldehyde	ester		cyano	•	furan	bromine	chlorine
	aldehyde	ester	ether	cyano		furan	bromine	chlorine
	aldehyde	ester	ether	cyano		furan	bromine	chlorine
	aldehyde	ester		cyano	•	furan	bromine	chlorine
	aldehyde			cyano		furan	bromine	chlorine
	aldehyde			cyano		furan	bromine	chlorine,
tophan	aldehyde			cyano	- •	furan	bromine	chlorine
Tryptophan	aldehyde	ester		cyano	••	furan	bromine	chlorine
			n-heterocyclic					
Tryptophan		thiol	ring	thionedisulfide	yrrolidindione	iodine	hydrazone	thiocyanate
Tyrosine	aldehyde	_	ether	cyano		furan		chlorine
	aldehyde		ether	cyano		furan		chlorine
	aldehyde		ether	cyano		furan		chlorine
	aldehyde		ether	cyano		furan		chlorine
	aldehyde	ester	ether	cyano		furan		chlorine
	aldehyde	ester	ether	cyano		furan		chlorine
	aldehyde	ester	ether	cyano		furan		chlorine
Valine	aldehyde	ester	ether	cyano		furan	bromine	chlorine
	aldehyde	ester		cyano		furan		chlorine
Vitamin K5	aldehyde	ester		cyano		furan		chlorine
-	aldehyde	ester		cyano		furan		chlorine
•			•					

Sebacic acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
	s-heterocyclic		cyano	n-heterocyclic	ketone	phosphate ester	
	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Stearic acid	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
70	s-heterocyclic		cyano	n-heterocyclic	ketone	phosphate ester	
•	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
	s-heterocyclic		cyano	in-heterocyclic	ketone	phosphate ester	
	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
tophan	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Tryptophan	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
				-			
Tryptophan	*bromine		hydroxamic acid	cyano	carboxamide	sulfonic acid	*phosphoric acid
	s-heterocyclic	pyridine	cyano	in-heterocyclic	ketone	phosphate ester	
	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
-	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
••••	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
• • •	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
••	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Valine	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Valine	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Vitamin K5	s-heterocyclic	pyridine	cyano	in-heterocyclic	ketone	phosphate ester	
	s-heterocyclic	pyridine	cyano	n-heterocyclic	ketone	phosphate ester	
Xylitol	s-heterocyclic	pyridine	cyano	in-heterocyclic	ketone	phosphate ester	

Co-crystal Former								
		carbamate	imidazole	BF4			'N-SO2	thiourea
	fluorine	carbamate	imidazole	BF4			'N-SO2	thiourea
Serine		carbamate	imidazole	BF4	•••		N-SO2	thiourea
Serine		carbamate	imidazole	BF4	• •		N-SO2	thiourea
acid		carbamate	imidazole	BF4	•		N-SO2	thiourea
Succinic Acid		carbamate	imidazole	BF4	•		N-S02	thiourea
Tartaric Acid		carbamate	imidazole	BF4			N-SO2	thiourea
Threonine		carbamate	imidazole	BF4			N-SO2	thiourea
Threonine		carbamate	imidazole	BF4			N-S02	thiourea
Threonine		carbamate	imidazole	BF4	•		N-S02	thiourea
		carbamate	imidazole	BF4	-		N-SO2	thiourea
		carbamate	imidazole	BF4			N-SO2	thiourea
	····	carbamate	imidazole	BF4			N-S02	thiourea
Tryptophan	•	carbamate	imidazole	BF4			N-S02	thiourea
Tryptophan		ester	ether	fluorine	acetate thione	thione	dithiadiazocyclopentadienyl	
Tyrosine		carbamate	imidazole	BF4	-		N-SO2	thiourea
	fluorine	carbamate	imidazole	BF4	•		N-SO2	thiourea
Tyrosine	_		imidazole	BF4			N-S02	thiourea
Urea		carbamate	imidazole	BF4			N-SO2	thiourea
Úrea		carbamate	imidazole	BF4			IN-S02	thiourea
			imidazole	BF4			N-S02	thiourea
			imidazole	BF4	- .		N-S02	thiourea
			imidazole	BF4	•		N-S02	thiourea
		carbamate	imidazole	BF4			N-S02	thiourea
	<u>ij</u>	carbamate	imidazole	BF4	•		N-S02	thionrea
Xylitol	fluorine	carbamate	imidazole	BF4	,		N-SO2	thiourea
•								

Co-crystal Former	: Giboi:		
Sebacic acid	odine		_
Serine	iodine		
Serine	iodine		_
Serine	iodine	epoxide	
Stearic acid	iodine		
Succinic Acid	iodine		
Tartaric Acid	iodine		
Threonine	iodine		
Threonine	iodine		
Threonine	iodine	epoxide	
Tris	iodine		
. Tris	iodine	epoxide	
Tryptophan	iodine	<u>-</u>	
Tryptophan	iodine		
i ryptopnan	. :		
Tyrosine	iodine		
Tyrosine	iodine		
Tyrosine	iodine	epoxide	
Urea	iodine		
Urea	iodine		_
Urea	iodine	epoxide	epoxide peroxide
Valine	iodine		
Valine	iodine		
Vitamin K5	iodine		
Vitamin K5	iodine	epoxide	
Xviitol	iodine	epoxide	-

TABLE II

Functional Group	Functional Group Structure	Interacting Group	٩				
pyridine	, z	*alcohol	pyridinium	*amide	nitro	amine	*carboxilic acid
imidazole	zz z	imidazole	chlorine	acetamide	carboxylate	thione	nitro
Hydroxamic acid	D NH	hydroxamic acid alcohol		phosphinic ester	alkane	pyridine	amide
peroxide	КО-	ester	peroxide	amide	ether	alkane	N-heterocycle
epoxide		alkane		alcohol	ester	epoxide	amide
thioester	ω	aromatic	thioester	alkane	sulfamide	hydroxy	bromine

Functional Group								•	
pyridine	*sulfonamide	*ketone	ether	triazole	alkane	ammonium oxime		chlorine	alkyne
imidazole	cyanamide	ketone	cyano	carboxilic	alcohol	alkane	thiol	a in e	phosphinic acid hemihydrate
Hydroxamic acid	sulfonamide	carboxylate	phosphine	amine	aromatic	·			
peroxide	aromatic	alcohol	pyrimidinedione analine	analine	thiazole	peroxy acid ketone		carboxilic acid azide	azide
epoxide	alkene	hydrazone	aromatic	thioether	ketone	aldehyde	chlorine	carboxilic acid alkyne	alkyne
thioester	iodine	amine	cyano	thioketone	iamide		chlorine	nitro	

Functional Group								
pyridine	thiol	n-heterocyclic ring	thionedisulfide pyrrolidindione lodine	pyrrolidindione		hydrazone thiocyanate	 *bromine	aromatic
imidazole	chlorine	sulfonyl	sulfoxide	amide	fluorine	sulfonate ester	 	
Hydroxamic acid				<u> </u>			 	
peroxide	phosphine oxide	sulfonamide	analine		·			
epoxide		ammonium	fluorine	nitro	· amine	cyano		
thioester				,				

Functional Group											_
pyridine	hydroxamic acid	cyano	carboxamide	*sulfonic acid	*sulfonic *phosphoric acid acid	'N-oxide ester		ether	fluorine	acetate thione	thione
imidazole						, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		<u></u>			
Hydroxamic acid				······································					a aan 11		
peroxide		·	·			, 	·	 , .			
epoxide						. <u>.</u>					
thioester										a	

Functional Group					
pyridine	dithiadiazocyclop				
imidazole			 	-	
Hydroxamic acid	-				,
peroxide	-	·		· ··.	
epoxide					
thioester	,				

8

Functional Group	Functional Group Structure	Interacting Group	<u>a</u>				
	· •						_
thioketone		alkane	thioketone	. Ketone	SULFAMIDE	AMINE	
nitrate ester		aromatic	amide	alkane	chlorine	nitrate ester	bromine
Thiophosphate ester-O		amine	imidazole	cyclic amide			
Phosphate ester	ō 	aromatic	alcohol	phosphate ester	aromatic N- ring	pyridine	analine
Ketone	e o=	alcohol	ketone	thiol	amide	amine	analine
Aldehyde	7	alcohol	ketone	thiol	amide	amine	analine
Thiol	R——SH	carboxylic acid	sodium	aldehyde	ketone	aromatic-N	cadmium

Functional Group						·			
thioketone	sulfoxide	0	chlorine	bromine	AROMATIC alkene		sulfone	iodine	AZOXY
nitrate ester	alcohol	ether	acetate						
Thiophosphate ester-O		•• • • • • • • • • • • • • • • • • • •							
Phosphate ester	amine		sodium	potassium	lithium	carboxylic acid	amide	alkane	
Ketone	phenol	phosphate	sulfate	sulfone	nitrate	pyridine	aromatic	carboxilic acid metals	metals
Aldehyde	phenol	phosphate	sulfate	sulfone	nitrate	pyridine	aromatic	carboxilic acid imetals	metals
Thiol	alkane	arsenic	chlorine	alcohol	potassium	.Ku	aromatic	Ϋ́δ	Sp

Functional Group					-		-		
thioketone	potassium epoxide		n-oxide	cyano	io	cobalt	amine	sulfate	
nitrate ester							···· - ·-		
Thiophosphate ester-O		,				J			
Phosphate ester		_			,				
Ketone	aldehyde	ester	ether	cyano		furan	bromine	chlorine	s-heterocyclic
Aldehyde	aldehyde	ester	ether	cyano		furan	bromine	. chlorine	s-heterocyclic
Thiol									

Functional Group										
thioketone				<u> </u>						
nitrate ester						<u>_</u> .				
Thiophosphate ester-0				-,		· ··································				
Phosphate ester									<u> </u>	w w -
Ketone	pyridine	cyano	n-heterocyclic ketone		phosphate	fluorine	fluorine carbamate imidazole	imidazole	BF4	alkane
Aldehyde	pyridine	cyano	n-heterocyclic ketone	ketone	phosphate ester	fluorine	fluorine carbamate imidazole	imidazole	BF4	alkane
Thiol										

Functional Group				:		
thioketone					-	
nitrate ester				:		
Thiophosphate ester-O		· ·				
Phosphate ester			:			
Ketone	aromatic	N-S02	thiourea	iodine		
Aldehyde	aromatic	N-SO2	thiourea	iodine	epoxide	
Thiol			-			

Functional Group	Functional Group Structure	Interacting Group					
	-)					
Alcohol	ROH	alcohol	ketone	thiol	amide	amine	analine
Thioether	ω ω	aromatic-N	amide	amine	aromatic_s	Sp2 amine	sulfoxide
Ether	O &	aromatic-N	amide	amine	aromatic_s	Sp2 amine	sulfoxide
Cyanamide	Z	cyano	amine	potassium	aromatic-N	bromine	sodium
Thiocyanate	-N C H=	aromatic-S	ester	ether			
sP2 amine	<u>~</u>	thioether	ether	metals	MoOCI4		bromine
Amine primary	RNH ₂	alcohol	ketone	thiol	amide	amine	analine

Functional Group							-		
Aicohol	phenol	phosphate	sulfate	sulfone	nitrate	pyridine	aromatic	carboxilic acid metals	metals
Thioether	chlorate	chlorine	alkyne	cyano	ester	· amine	nitro	nitrate	bromine
Ether	chlorate	chlorine	alkyne	cyano	ester	amine	nitro	nitrate	bromine
Cyanamide	imidazole	ether	n-heterocyclic	alcohol	cesium	. 8	de d		
Thiocyanate									
sP2 amine	chlorine		Sp2 amine	sulfate	Osmium				
Amine primary	phenol	phosphate	sulfate	sulfone	nitrate .	pyridine	aromatic	carboxilic acid metals	metals

Functional Group									
Alcohol	aldehyde	ester	ether	icyano		·furan	bromine	chlorine	s-heterocyclic
Thioether	aldehyde	ketone	peroxide	epoxide	. 6	<u>ه</u>	heterocyclic-S iodine	iodine	ester
Ether	aldehyde	ketone	peroxide	epoxide	8	<u>8</u>	heterocyclic-S_iodine	iodine	ester
Cyanamide									
Thiocyanate	<u></u>								
sP2 amine									
Amine primary	aldehyde _l ester	ester	ether	cyano		furan	bromine	chlorine	s-heterocyclic

Functional Group											
Alcohol	pyridine	суапо	n-heterocyclic ketone		phosphate ester		fluorine	fluorine carbamate imidazole	imidazole	BF4	alkane
Thioether	ether	carboxylic	sulfate	sulfone	alkane	alcohol	<i></i>	phospphate			
Ëther	ether	carboxylic acid	sulfate	sulfone	alkane	alcohol		phospphate cyanamide	cyanamide		
Cyanamide				,					•		
Thiocyanate				_			,,				
sP2 amine											
Amine primary	pyridine	cyano	n-heterocyclic ketone		phosphate ester		fluorine	fluorine carbamate imidazole	imidazole	BF4	alkane

Functional Group						
Alcohol	aromatic	N-SO2	thiourea	iodine	epoxide	
Thioether						
Ether			·			
<u>Cy</u> anamide	mana		. <u>.</u>			
_ Thiocyanate						
sP2 amine				•		
Amine primary	aromatic	N-S02	thiourea	iodine		

Functional Group	Functional Group Structure	Interacting Group	a.				
Amine secondary	R ₂ ——NH	alcohol	ketone	thiol	amide	amine	analine
Amine tertiary	, N	alcohol	ketone	thiol	amide	amine	analine
Amide	MH ₂	alcohol	ketone	thiol	amide	amine	analine
Sulfonic acid	œ :	pyridine	ketone	aldehyde	ether	ester	amide
Phosphinic acid	o ~ ~ o=	alkane	potassium	lithium	n-heterocyclic loxime	oxime	amide
Phosphonic acid		alkane	potassium	lithium	n-heterocyclic oxime	oxime	amide
Carboxylic acid	HO HO	alcohol	ketone	thiol	amide	amine	analine

Functional Group	:		,	:					
Amine secondary	phenol	phosphate	sulfate	sulfone	nitrate	pyridine	aromatic	carboxilic acid	metals
Amine tertiary	phenol	phosphate	sulfate	sulfone	nitrate	pyridine	aromatic	carboxilic acid	metals
Amide	phenol	phosphate .	sulfate	sulfone	nitrate	pyridine	aromatic	carboxilic acid	metals .
Suffonic acid	carboxilic acid	amine	metals	thioether		sulfate	alcohol		
Phosphinic acid	phenol	aromatic	amine	alcohol		metals			,
Phosphonic acid	phenol	aromatic	amine	alcohol		metals	carboxylic acid	Sp2 amine	analine -
Carboxylic acid	phenol	phosphate	sulfate	sulfone	nitrate	pyridine	aromatic	carboxilic acid	metals

Functional Group									
Amine secondary	aldehyde	ester	ether	cyano	-	furan	bromine	chlorine	s-heterocyclic
Amine tertiary	aidehyde	ester	ether	cyano		furan	bromine	chlorine	s-heterocyclic
Amide	aldehyde	ester	ether	cyano		furan	bromine	chlorine	s-heterocyclic
Sulfonic acid									
Phosphinic acid		·····							
Phosphonic acid	ether	phosphonic	aromatic-N	ketone	aldehyde	imidazole		and the second second	
Carboxylic acid	aldehyde	ester	ether	cyano		furan	bromine	chlorine	s-heterocyclic

Functional Group										
Amine secondary pyridine	pyridine		n-heterocyclic	ketone	phosphate ester	fluorine	fluorine carbamate	imidazole	BF4	alkane
Amine tertiary	pyridine	cyano	n-heterocyclic ketone	ketone	phosphate ester	fluorine	fluorine carbamate imidazole	imidazole	BF4	alkane
Amide	pyridine	cyano	n-heterocyclic 'ketone	ketone	phosphate ester	fluorine	fluorine carbamate imidazole	imidazole		alkane
Suffonic acid		1				,				
Phosphinic acid	E-1700 000 1 E-170 101 000 000									
Phosphonic acid										
Carboxylic acid	pyridine	cyano	n-heterocyclic ketone		phosphate ester	fluorine	fluorine carbamate imidazole	imidazole	BF4	akane

Functional Group						
			:			
Amine secondary	aromatic	N-S02	thiourea	iodine		
Amine tertiary	aromatic	N-SO2	thiourea	iodine		
Amide	aromatic	N-SO2	thiourea	iodine	epoxide	peroxide
Sulfonic acid						
Phosphinic acid						
Phosphonic acid	:					
Carboxylic acid	aromatic	N-S02	thiourea	iodine		

TABLE III

Functional Group	Functional Group Functional Group Structure	Interacting Group	⊆ .				
	0 0 0						
Sulfate ester	= 0	pyridine	ketone	aldehyde	ether	ester	amide
Охіте	C	alcohol	alkane	amine	amide	ether	ester
Nitrile	C C	metal	ketone	phenol	alcohol		суапо
Diazo	~	Oxime					
Nitro	NO ₂	pyridine	ketone	aldehyde	ether	ester	amide
S-heterocyclic ring	S u	alcohol	thioketone	thioether	s-heterocyclic ketone	ketone	aromatic
Thiophene	S	chlorine	fluorine	amide	ketone	ON	SO

Functional Group									,
Sulfate ester	carboxilic acid	amine	metals	thioether	sulfate	alcohol	•		
Охіте	pyridine	n-aromatic	chlorate	chlorine	Sp2-N	diazo	thioketone cyano		n-oxide
Nitrile	amine	analine	bromine	amide	alkane	carboxylic	chlorine	n-heterocyclic	aromatic
Diazo									
Nitro	carboxilic acid	amine	metals	thioether	sulfate	alcohol			
S-heterocyclic ring alkene	alkene	a in e	chlorine	BF4	sulfate	ester	O _X	ether	amide .
Thiophene	8								

Functional Group					~				
Sulfate ester			***************************************	. !					
Oxime	ketone	aldehyde	carboxylic acid bromine		aromatic	pyridine	BF4		
Nitrile	potassium alde	ihyde	thioether	pyridine	n- aromatic	bromine	ether	s-aromatic thiophene	thiophene
Diazo		1		;					
Nitro									
S-heterocyclic ring iodine	•	carboxylic acid .sodium		cyano	chloride	furan			
Thiophene									

Functional Group								
		• •••						
Sulfate ester	; ;	•		:				
Oxime	: i			 '		. <u>-</u>		
Nitrile								
Djazo 	· ·	:	~	 · · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	
Nitro	: : :			 ;		··•• •	·	
S-heterocyclic ring					 			
Thiophene				 	 			

Functional Group	,		:	:		
				- <u></u>		
Sulfate ester	·					
Oxime	-					
Nitrile	;					
Diazo						
Nitro	,					
S-heterocyclic ring		;		1	· · · · · · · · · · · · · · · · · · ·	
Thiophene						

Functional Group	Functional Group Structure	Interacting Group	Q.				
N-heterocyclic ring		alcohol	thioketone	thioether	s-heterocyclic ketone		aromatic
O-heterocyclic ring	U IIV	alcohol	thioketone	thioether	s-heterocyclic ketone	ketone	aromatic
Pyrrole		chlorine	fluorine	amide	ketone	O	OS
Furan		s-heterocyclic					

Functional Group		·		,					
N-heterocyclic ring alkene	alkene	amine .	chlorine	8F4	sulfate	ester	O _N	ether	amide
O-heterocyclic ring alkene	alkene	amine	chlorine	BF4	sulfate	ester	Q.	ether	amide
Рұтоlе	8	midazole	pyridine	n-aromatic aldehyde		carboxylic acid	sulfate	chlorine	bromine
Furan									

Functional Group								
N-heterocyclic ring lodine		carboxylic acid sodium		cyano	chloride	aldehyde		
O-heterocyclic ring iodine		carboxylic acid sodium		cyano	chloride	aldehyde	es is com	
Pyrrole	oxime	alcohol	phenol	ester	ether		<u></u>	
Furan								

Functional Group		1		. .	-	
N-heterocyclic ring	 		 		· •	
O-heterocyclic ring	 		 			
Pyrrole	 		 		. 	
Furan	 		 			

Functional Group	
N-heterocyclic ring	· · ·
O-heterocyclic ring	
Pyrrole	
Furan	

API Generic Name	API Chemical Name 3,5-Pyridinedicarboxylic acid, 2-((2-aminoethoxy)methyl)-4-(2-chlorophenyl)-	CAS No.	Patent Reference	Example of Therapeutic Use	Example of Indication
(-)-amlodipine	1,4-dihydro-6-methyl-, 3-ethyl-5-methyl ester, (S)- [CAS] (-)-Benzeneacetic acid, 4-chloro-Alpha-[3-(trifluoromethyl)-phenoxy]-, 2-	103129-82-4	WO 9310779	Antihypertensive, other	Hypertension, general
(-)-halofenate	(acetylamino)ethyl ester 1,3-Benzenedimethanol, Apha1-(((1,1-		US 6262118	Antidiabetic	Diabetes, Type II
(R)-salbutamol	[CAS]		**	Formulation, modified-release, <=24hr Asthma	Asthma
(R)-salbutamol	1,3-benzenedmenanoi, Apna 1-(((i. i-dimethylethyl)amino)methyl)-4-hydroxy-[CAS] Formamide, N-(2-hydroxy-5-(1-hydroxy-2-(/2.74 methylenyl)-1-	34391-04-3	US 5547994	Antiasthma	Asthma
(R.R)-formoterol	metrylethylamino)ethyl)phenyl)- (R- (R*,R*))- [CAS] (S)-1-(4-amino-6,7-dimethoxy-2-	67346-49-0	US 5795564	Antiasthma	Asthma
(S)-doxazosin	quinazolinyl)-4-(1,4-benzodioxan-2-yl carbonyl)piperazine	70918-18-2	WO 9409785	Prostate disorders	Benign prostatic hyperplasia
S)-fluoxetine	Benzenepropanamide, N-methyl-Gamma- (4-(trifluoromethyl)phenoxy)- (S) Benzeneaœtic acid, Alpha-cyclohexyl- Alpha-hydroxy- 4-(diethydamiron)-2-hydroxyl			Antimigraine	Migraine
(S)-exybutynin 1,2-Naphthoquinone 17a-	ester, (S)-[CAS]	119618-22-3 1524-42-5 168-96-2		Urological	Incontinence
Hydroxyprogesterone 17-Methyltestosterone	Patinum-195m, diamminedichloro, (SP-4-2)-	58-18-4			44
195mPt-cisplatin 1α- Hydroxycholecalciferol		41294-56-8	US 6074626	Anticancer, alkylating	Cancer, liver

			Patent		· ·
API Generic Name	API Chemical Name	CAS No.	Reference	Example of Therapeutic Use	Example of Indication
1-Naphthyl Salicylate		550-97-0		•	• •••
1-Naphthylamine-4-	•	84-86-6	+	~.	
Sulfonic Acid					
1-Theobromineacetic	· · · · · · · · · · · · · · · · · · ·	5614-56-2			· ·
Acid				.,	
2,4,6-Tribromo-m-cresol	·	4619-74-3	• • •		• •• •••••
2,6-Diamino-2'-butyloxy-		617-19-6			
3,5'-azopyridine					
21-	. -	566-78-9	•		
Acetoxypregnenolone		•			
2-Amino-4-picoline		,695-34-1			
2-Aminothiazole	2-Ethoxybenzoic acid	96-50-4			
2-ethoxybenzoic acid		,	DE 5134001	Analgesic, NSAID	Pain, general
2-Naphthol		135-19-3	• • • •		
2-Naphthyl Benzoate		93-44-7	·		
2-Naphthyl Lactate	- •	9343.6			
2-Naphthyl Salicylate		613-78-5	4		
Z-p- Sulfanilylanijinoethanol		\$-70-00			
			• •		
2-Thiouracil		141-90-2	• •		
3,3",5',5"-		76-62-0			
Tetrabromophenolphtha					
lein		1			
3-Amino-4-		589-44-6			·
hydroxybutyric Acid					
3-Bromo-d-camphor		76-29-9			
3-Hydroxycamphor		10373-81-6	•		
3-0-Lauroyipyridoxol		1562-13-6			
Diacetate	· · · · · · · · · · · · · · · · · · ·	- !	 		
3-Pentadecyicatecnol		482-88-/			

ADI Generic Name	API Chemical Name	CAS No.	Patent Reference	Example of Therapeutic Use	Example of Indication
3-Quinuclidinol		1619-34-7			
4.4'-Oxvdi-2-butanol		821-33-0		•	
4,4'-Suffinyldianiline		119-59-5			
4-Amino-3-		352-21-6			
hydroxybutyric Acid 4-Amino-3-phenylbutyric	· 0	1078-21-3			
Acid			. .	-	•
4-aminosalicylic acid	Benzoic acid, 4-amino-2-hydroxy- [CAS]	65-49-6		'Gl inflammatory/bowel disorders	Inflammatory bowel disease
4-Chloro-m-cresol		29-20-7			***
4-Hexylresorcinol		136-77-6		-	
4-SalicyloyImorpholine		3202-84-4			
5'-Nitro-2'-		553-20-8			
propoxyacetanilide				,	
5-aminolevulinic acid,	Pentanoic acid, 5-amino-4-oxo- [CAS]	106-60-5		Dermatological	Keratosis
5-azacitidine	rio,5-Finazii-z(Tin-Gile, +aiiiii0-1-5-D-iibofuranosyl-[CAS]	320-67-2		Anticancer, antimetabolite	Myelodysplastic syndrome
က်		5798-94-7		-	
Bromosalicylhydroxami					
c Acid					
! !	2-(4-Amino-3-methylphenyl)-6-	•			
2003	nydroxyberizounazore			Apticoper other	Cancer breast
5r-Dr-203	2,4(1H,3H)-Pyrimidinedione, 5-fluoro	•			
5-FU	[CAS]	51-21-8		Formulation, parenteral, targeted	Cancer, general
5-HT3 antagonists			US 6037360	Male sexual dysfunction	Premature ejaculation
6-Azauridine		54-25-1			
6-Mercaptopurine	·-	50-44-2			
8-Hydroxyquinoline		140-24-3		······································	
a-Aminocampiomecin	N. 12-/2 2 2 Trifficon-1 hydrox. 1	1-04-174-16			
	trifluoromethyl-ethyl)-naphthalen-1-yl]				
4.151802	amide			12.100 22.100 12	Dveractive bladder
70101				in the second	

			-			
API Generic Name	API Chemical Name	CAS No. 9041-92-3	Patent Referen	Patent Reference	Example of Therapeutic Use	Example of Indication
A-5021	.6H-Purin-G-one, 2-amino-9-(((1S,2R)-1,2-bis(hydroxymethyl)cyclopropyl)methyl)-1,9-dihydro-[CAS]	145512-85-2			Antiviral, other	infection, varicella zoster virus
abacavir	2-Cyclopentene-1-methanol, 4-(2-amino-6- (cyclopropylamino)-9H-purin-9-yl)-, (1S-cis)- [CAS] 7-13-14-(6-Fluoro-1,2-benzisoxazol-3-	136470-78-5 188062-50-2	<u> </u>	434450	<u>A</u>	Infection, HIV/AIDS
abaperidone	yl)piperidin-1-yl]propoxy}-3- (hydroxymethyl)chromen-4-one	183849-43-6	8	9632389	Neuroleptic	Schizophrenia
	D-Alaninamide, N-acetyl-3-(2-naphthalenyl)-D-alanyl-4-chloro-D-phenylalanyl-3-(3-pyridinyl)-D-alanyl-L-seryl-N-methyl-L-fyrosyl-D-asparaginyl-L-laucyl-N6-(1-methylethyl)-L-bysyl-L-prolyl-	: 				
abarelix Abciximab Abecamil	[cas]	183552-38-7 143653-53-6 111841-85-1	S	5843902	Anticancer, hormonal	Cancer, prostate
abetimus	Androsts 5 18 dien 2 n. 12 /2 mirdinul	169147-32-4	S	5552391	Immunosuppressant	Lupus erythematosus, systemic
abiraterone α- Bisabolo l	acetate (ester), (3B)- [CAS]	154229-18-2 515-69-5	8	2265624	Anticancer, hormonal	Cancer, prostate
ABLC	Amphotericin B (CAS) Benzenesulfonamide, N-{2-{(4-	1397-89-3 30652-87-0	~		Formulation, conjugate, carbohydrate	Infection, Candida, general
ABT-751	hydroxyphenyl)amino]-3-pyridinyl]-4- methoxy- [CAS]	141430-65-1	品	472053	Anticancer, other	Cancer, general
AC-5216	N-benzyl-N-ethyl-2-(7,8-dihydro-7-methyl-8-oxo-2-phenyl-9H-purin-9-yl)acetamide				Anxiologic	Anviote general
Acadesine	1-Propanesulfonic acid 3-(acetylamino).	2627-69-2				Nixety, general
acamprosate Acamprosate	[CAS]	77337-76-9 77337-73-6	8	2051789	Dependence treatment	Addiction, alcohol

			_			
API Generic Name	API Chemical Name	CAS No. 56180-94-0	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
	7H-Purine-7-aœtic acid, 1,2,3,6-tetrahydro-1,3-dimethyl-2,6-dioxo-,compd. with trans-4-[[(2-amino-3,5-dibromochenyl)methyllaminolcyclohexanol					
acebrophylline	(1:1) [CAS]	96989-76-3	<u>ä</u>	3425007	Antiasthma	, ,
- Annitrala	Butanamide, N-{3-acetyl-4-{2-hydroxy-3- [(1-methylethyl)amino]propoxy]phenyl]-, (+/-y. ICAS]	34381-68-5 37517-30-9	2	3726919	Antihypertensive, adrenergic	
Acecainide	•	32795-44-1 77-66-7				
	Benzeneacetic acid, 2-{(2,6-dischlorechand)aminol. carboxymethyl	:		_		
aceclofenac	ester [CAS]	89796-99-6	ᇜ	119932	Anti-inflammatory	Pain, musculoskeletai
Acedapsone		77-46-3		· ·		
Acediasultone		652-37-9				
Aceglutamide		2490-97-3				
	Aluminum, pentakis(N2-acetyl-L-	12607-92-0	2	2127176	Antiulcer	Ulcer. Gl. general
aceginating	1H-Indole-3-acetic acid, 1-(4-	,	<u> </u>	,		
•	chlorobenzoyl)-5-methoxy-2-methyl-,	53464 DE D	9	100400	66.	
acemetacin	carboxymemyi ester [CA5]	8-co-balse	3	7080160	Ant-iniaminatory	• •
Acenocoumarol		152-72-7				
Acetal	٠	105-57-7				
Acetamidoeugenol		305-13-5				
Acetaminophen		103-90-2	 .			
Acetaminosaioi		103-84-4				
Acetarsone		97-44-9				
Acetazolamide	•	2-99-69		Same Libera e d	,	
Acetiamine	r :	299-89-8				
Acetohexamide		968-81-0	. 		•	-
Acetohydroxamic Acid	. 1	546-88-3				-
Acetophenazine		2751-68-0				

			Patent	Ħ		:
API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
Acetophenone		98-86-2				
Acetosulfone		128-12-1				
	Olean-12-en-30-oic acid. 30-hydroxy-11-	29728-34-5	_	•		
acetoxolone	oxo-acetate, aluminium salt [CAS]	6277-14-1	S	,3764618	Antiuloer	
Acetrizoate	•	129-63-5				
Acetyl	•					
Sulfamethoxynvrazine		3590-05-4				
Acetylcamitine	•	14992-62-2				•
Acetylcanium	•	66-23-9				
Acetylcholine		60-31-1				•
Acetyleveteine		616-91-1				
Acetylleucine		149-90-6				
Monoethanolamine						
Acetylpheneturide	•	13402-08-9				
L. (-)	•	50-78-2 530			Formulation, optimized,	
acetylsalicylic acid	Benzoic acid, 2-(acetyloxy)- [CAS]	75-6			microencapsulate	Pain, general
α-Chloralose	•	15879-93-3				
))	6H-Purin-6-one, 2-amino-1,9-dihydro-9-[(2-					
aciclovir	hydroxyethoxy)methyl]- [CAS]	59277-89-3			Formulation, dermal, topical	Infection, herpes simplex virus
Acifran		72420-38-3				
:	necarboxylic acid, 5-methyl-, 4-oxide					
acipimox	[CAS]	51037-30-0	89	1361967	Hypolipaemic/Antiatherosclerosis	Hyperlipidaemia, general
	Acetic acid, oxo[[3-(1H-tetrazol-5-					
acitazanolast	yl)phenyljamino}- [CAS]	114607-46-4	<u>a</u>	256507	Ophthalmological	Conjunctivitis
	12,4,6,8-Nonatetraenoic acid, 9-(4-methoxy-2,3,6-trimethytohenyl)-3,7-dimethyl- (all-E)	4				
acitretin	CAS	55079-83-9	8	1468401	Antipsoriasis	Psoriasis
•		57576-44-0	-,			
adarubicin		75443-99-1	S	3988315	Anticancer, antibiotic	
Aclatonium Napadisilate		55077-30-0				
Aconitine	•	302-27-2				
Acranif®		1684-42-0				•
Acriflavine	•	8048-52-0				
Acrisorcin		7527-91-5		i		

API Generic Name	Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
acrivastine	 12-Propenoic acid, 3-{6-{1-(4-methylphenyl)-(3-(1-pyrrolidinyl)-1-propenyl}-2-pyridinyl}-, [E,E)- [CAS] 	87848-99-5	<u> </u>	85959	Antipruritic/inflamm, allergic	Rhinitis, allergic, general
	Benzenemethanol, Alpha-[1- (methylamino)ethyl]-, hydrochloride, [S-					
	(R*,R*)}, mixtwith 2-Propenoic acid, 3-{6- [1-(4-methylphenyl)-3-(1-pyrrolidinyl)-1-				;	:
acrivastine + pseudoephedrine	propenyl}-2-pyridinyl}-, (E,E)- 13.3-dimethyl-1-propylamide HCl				Antiallergic, non-asthma	Rhinitis, allergic, seasonal
actagardine derivative	monocarboxamide actagardine				Peptide antibiotic	Infection, general
Actarit		18699-02-0				
ACTH		9002-60-2				
Acyclovir		C-60-1/760				
adapa	Imethoxy-3-tricyclo[3.3.1.13,7]dec-1- vlohenvl)- [CAS]	106685-40-9	<u>a</u>	199636	Antiache	Acne
ADCON-L	GL 402 [CAS]	137802-74-5			Formulation, other	Fibrosis, epidural
Adefovir	· · · · · · · · · · · · · · · · · · ·	106941-25-7				
	Propanoic acid, 2,2-dimethyl-; (((2-(-6-amino-9H-ourin-9-					
	yl)ethoxy)methyl)phosphinylidene)bis(oxy					
adefovir dipivoxil	methylene)ester- [CAS]	142340-99-6	<u></u>	205826	Antiviral, other	Infection, hepatitis-B virus
Adenoscan	[CAS]	58-61-7			Imaging agent	Diagnosis, coronary
Adenosine Triphosphate		56-65-5				
ADEPT		156079-88-8			Immunoconjugate, other	Cancer, colorectal
Adinazolam		37115-32-5 64-05-0				
Adiphenine ADL-10-0101	,	6 6 7	8	9732857	Analgesic, other	Pain, general
Adrafinii Adrenalone		63547-13-7 99-45-6 54-06-8				•
	Benzo(f)thieno(2,3-c)quinoline-9,10-diol, 4,5,5a,6,7,115-hexahydro-2-propyl-					
adrogolide	ignacetate (ester), nyarochioride (partrans)- [CAS]	171752-56-0	S	5597832	Dependence treatment	Addiction, cocaine

API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Therapeutic Use	Example of Indication
AEOL-10150			3	6103714	Neuroprotective	Unspecified
AET		56-10-0				
α-Ethylbenzyl Alcohol		93-54-9				
	Benzeneacetic acid, Alpha-methyl 4-{2-methylomovyl- 2-methoxonhenyl ester					
AF-2259	[CAS]	66332-77-2	岜	2726435	Anti-inflammatory	Inflammation, general
Afloquatione	; :	56287-74-2				
!	.1H-Indole-3-acetamide, 1-(2,2-diethoxyethyl)-2,3-dihydro-N-(4-methylphenyl)-3-(((4-methylphenyl)-3-(((4-methylphenyl)-3-methylphenylamino)-2-		,			
AG-041R	oxo-, (3R)- [CAS]	199800-49-2	8;	WO 9419322	Aimentary/Metabolic, other	Unspecified
	N-(5-[2-(2-amino-4(3H)-oxo-5,6,7,8- tatrahydropyrido[2,3-d]pyrimidin-6-yl)ethy}-					
AG-2037 α -Glucose-1-phosphate		59-56-3			Anticancer, antimetabolite	Cancer, general
	Benzoic acid, 4-((4-(4-ethylphenyl)-2,2-					
AGN-194310	ylethynyl)- [CAS]	229961-45-9	8	9709297	Dermatological	Psoriasis
agomelatine	naphthalenyl)ethyl)- [CAS]	138112-76-2 518 61 6	<u>u</u>	447285	Antidepressant	Sleep disorder, general
Anistan AHL-157))	മ	5411972	Hypolipaemic/Antiatherosclerosis	Atherosclerosis
AIT-034	9H-Purine-9-propanamide, 1,6-dihydro-6-oxo-N-(3-(2-oxo-1-pyrrolidinyl)propyl)-ICAS)	138117-48-3	SD	5447939	Cognition enhancer	Dementia, senile, general
	N-12-(5-Hydroxy-1H-indol-3-yl)ethyl]-3-(6-oxo-6,9-dihydro-1H-purin-9-			<u>.</u>		•
AIT-202	yl)propionamide		8	9957120	Antidepressant	Unspecified

API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
AJ-9677	Acetic acid, ((3-((2K)-2-((2K)-2-(3- chlorophenyl)-2- hydroxyethyl)amino)propyl)-1H-indol-7- yl)oxy)- [CAS]	244081-42-3			Antidiabetic	Diabetes, Type II Motility dysfunction, GI
AJG-049		12/7/4380	0 M	9733885	Gastroprokinetic	general
Ajmaline Alacepril		74258-86-9			·	
	4(3H)-Quinazolinone, 7-chloro-3-[(1R,2R)-2-(2,4-difluorophenyl)-2-hydroxy-1-methyl-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			•	
albaconazole	;3-(1H-1,2,4-triazol-1-yl)propyl]- [CAS] Carbamic acid, [5-(propylthio)-1H-	187949-02-6 54029-12-8	§ .	9705131	Anthungal	Imecuon, Candida, general
albendazole	benzimidazol-2-yíl-, methyl ester [CAS]		8	1464326	Anthelmintic	Infection, helminth, general
Albuterol		18559-94-9 830-89-7				
Homon	Benzeneaœtic acid, 3-chloro-4-(2-	•				
alclofenac	propenyloxy)- [CAS]	22131-79-9	8	1174535	Anti-inflammatory	
	Pregna-1,4-diene-3,20-dione, 7-chloro-11- hydroxy-16-methyl-17,21-bis(1- loxopropoxy)-, (7Alpha,118,16Alpha)-	66734-13-2				
aldometasone	[CAS]		<u>s</u>	4124707	Antipruritic/inflamm, allergic	Inflammation, dermal
Alcuronium		23214-96-2			- 	
Aldioxa		5579-81-7			,	
Aidol		107-89-1			•	-
Aldosterone	Phosphonic acid, (4-amino-1-	52-39-1 121268-17-5				
alendronate	hydroxybutylidene)bis-[CAS]		89	2118042	Osteoporosis treatment	Osteoporosis
Alendronic Acid		66376-36-1				
Alexidine	0 10 Commonlesta & 7 10(10) triena 1 3	225/3-93-9				
	diol, (1Alpha,38,52,7E)- [CAS]	41294-56-8			Osteoporosis treatment	Osteodystrophy
Alfadolone		23930-37-2				
Alfaxalone	•	23930-19-0				-
Alfentanil		71195-58-9				
alfimeprase		259074-76-5			Fibrinolytic	Peripheral vascular disease

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API Generic Name	API Chemical Name 2-Furancarboxamide, N-[3-[(4-amino-6,7-	CAS No.	Reference	euce	Example of Therapeutic Use	Example of Indication
alfuzosin	nethylamino]propyljtetrahydr xamide, N-{3-[(4-amino-6,7-	81403-68-1 81403-80-7		2013679	Prostate disorders	Benign prostatic hyperplasia
affuzosin Algestone Algestone Acetophenide	aimethoxy-z- quinazolinyl)methylamino]propyl]tetrahydr o- [CAS]	81403-68-1 81403-80-7 595-77-7 24356-94-3			Fomulation, modified-release, other	Benign prostatic hyperplasia
Algin Algiucerase Alibendol		9005-38-3 143003-46-7 26750-81-2	######################################			
	(2S.4S,5S,7S)-5-Amino-N-(2-carbamoyl-2-methylpropyl)-4-hydroxy-2-isopropyl-7-{4-methoxy-2-(3-methoxypropoxy)benzyl}-8-methylnonanamide					
aliskiren	# P P P P P P P P P P P P P P P P P P P	173334-57-1			Antihypertensive, renin system	Hypertension, general
alitretinoin	יייין מפונייני מכלי	3/8/5300			Antipruritic/inflamm, allergic	Eczema, general
alizapride	1H-Benzotriazole-5-carboxamide, 6-methoxy-N-[[1-(2-propenyl)-2-pynolidinyl]methyl]- [CAS]	59338-93-1		1475234	Antiemetic	Nausea and vomiting, general
Alkannin Alkofanone Aliantoin	- 142 = 44 - 51	517-88-4 7527-94-8 97-59-6				
Allopurinol	;	52-43-7 315-30-0				
Allyl Isothiocyanate Allylestrenol	-;	57-05-7 432-60-0	-			
almagate	Magnesium, [carbonato(2-)]heptahydroxy(aluminum)tri-, dihydrate [[CAS]	66827-12-1 72526-11-5	SU 4	4447417	Antacid/Antiflatulent	
alminoprofen	Benzeneacetic acid, Alpha-methyl-4-[(2-methyl-2-propenyl)amino]- [CAS]	39718-89-3	US 3	3957850	Analgesic, NSAID	

API Generic Name	API Chemical Name	CAS No.	Patent Refere	9)	Example of Therapeutic Use	Example of Indication
almitrine	1,3,5-Triazine-2,4-diamine, 6-[4-[bis(4-fluorophenyl)methyl]-1-piperazinyl]-N.Ndi-27469-53-0 2-propenyl-, dimethanesulfonate [CAS] 29608-49-9	27469-53-0 29608-49-9		1256513	Respiratory	Bronchitis, chronic
almotriptan Aloe-Emodin Aloin	Pyrrolidine, 1-(((3-(2-(dimethylamino)ethyl)- 1H-indol-5-yl)methyl)sulfonyl)- [CAS]	154323-57-6 481-72-1 5133-19-7	8	9402460	Antimigraine	Migraine
بر و <u>.</u>	2,3,4,5-Tetrahydro-5-methyl-2-{(5-methyl-14-imidazol-4-yl)methyl}-1H-pyrido[4,3-b]indol-1-one [CAS] Thymidine, 3'-deoxy-3'-fluoro- [CAS]	122852-42-0 122852-69-1 132414-02-9 25526-93-6 0014 67-9	<u> </u>	306323 470355	GI inflammatory/bowel disorders Antiviral, anti-HIV	Irritable bowel syndrome Infection, HIV/AIDS
Aloxiprin Alpha-1 protease inhibitor			န	5780014	Formulation, inhalable, topical	Emphysema, alpha-1 antitrypsin deficiency
Apha-dihydroergocryptine Alphaprodine	Ergocryptine, 9,10-dihydro- methanesulfonate (satt)- [CAS]	29261-93-6 77-20-3 82626-04-6			Formulation, other	Parkinson's disease
Alpidem Alpiropride	4H-[1,2,4]Triazolo[4,3-	81982-32-3				
aprazolam Alprenolol	aj[1,4]benzodiazepine, 6-chloro-1-metryl- 6-phenyl-[CAS]	28981-97 <i>-7</i> 13655-52-2	S	3987052	Anxiolytic	Anxiety, general
alsactide	Apha1-17-Corticotropin, 1-8-alanine-17- [N-(4-aminobutyl)-L-lysinamide]- [CAS]	34765-96-3	S)	3749704	АСТН	Arthritis, rheumatoid
ALT-711 Althiazide	nazoliun, 4,3-uineuryr-7(2-xx-2- phenylethyl)-, bromide [CAS]	181069-80-7 5588-16-9	0M	9622095	Symptomatic antidiabetic	Hypertension, general
attnicline	Pyridine, 3-ethynyl-5-((2S)-1-methyl-2- pyrrolidinyl)- [CAS]	179120-92-4	S)	5594011	Antiparkinsonian	Parkinson's disease
atretamine	1,3,5-1 nazine-z,4,5-uramine, N,N,N',N",N"-hexamethyl- [CAS]	645-05-6 74 <u>4</u> 6-70-0	Sn	3424752	Anticancer, alkylating	Cancer, ovarian
aluminium chloride hexahydrate	aluminium chloride hexahydrate 'Aluminium chloride, hexahydrate	7784-13-6			Dermatological	Hyperhidrosis

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API Generic Name Aluminon Aluminum Acetate	API Chemical Name	CAS No. 569-58-4 8006-13-1	Referen	Reference	Example of Therapeutic Use	Example of Indication
Solution Aluminum Chlorate		15477-33-5				
Aluminum Hydroxy <u>c</u> hloride Aluminum Potassium		10043-67-1				
Sulfate Aluminum Sodium Sulfate		10102-71-3				
alusuif	Aluminum hydroxide sulfate (AI7(OH)17(SO4)2), dodecahydrate [CAS] 61115-28-4	61115-28-4	<u> </u>	2510663	Urological	Hyperphosphataemia
Alvenne avimopan	Glycine, N-{(2S)-2-[[(3R,4R)-4-(3-hydroxypheny)-3,4-dimethyl-1-piperidiny]methyl]-1-oxo-3-phenylpropyl]-[CAS]	156053-89-3	. <u>.</u> <u>.</u> <u>.</u> .	657428	G inflammatory/bowel disorders	lleus
di.	4H-1-Benzopyran-4-one, 2-(2- chlorophenyl)-5,7-dihydroxy-8-(3-hydroxy- 1-methyl-4-pipendinyl)-, cis-(-)- ICASI	131740-09-5 146426-40-6			Anticancer other	Cancer renal
ALX-0646	2,4,6-Triiodophenol	: : :	Š	9506638	Antimigraine	Migraine
AM-24		609-23-4			.Gl inflammatory/bowel disorders	Crohn's disease
AM-36	1-Piperazineethanol, 4-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyljmethyl]-Apha-(4-chlorophenyl)- [CAS] 2-Methoxyoestradiol	199467-52-2			Neuroprotective	Unspecified
Amantadine		768-94-5			Antiasthma	Asthma
amantanium Ambazone	1-Decanaminium, N.N-dimethyl-N-[2- [(tricyclo[3.3.1.13,7]dec-1- ykcarbonyl)oxyjethylj-, bromide [CAS]	58158-77-3 539-21-9	S	4288609	Antifungal	Infection, general
Ambenonium		1-67-611				

API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
ambrisentan	(+)-(2S)-2-[(4,6-dimethylpyrimidin-2-yl)oxy]- 3-methoxy-3,3-diphenylpropanoic acid	177036-94-1			Vasodilator, peripheral	Heart failure
ambroxol	Cyclohexanol, 4-[[(2-amino-3,5-dibromophenyl)methyl]amino]-, trans-[CAS]	18683-91-5 23828-92-4	8	1178034	COPD treatment	Bronchitis, chronic
Ambucaine Ambuphylline		119-29-9 5634-34-4				
Ambuside Ambutonium Bromide		3754-19-6 115-51-5	· ·			
ameironida	Pregna-1,4-diene-3,20-dione, 21- (acetyloxy)-16,17- [cyclopentylidenebis(oxy)]-9-fluoro-11- hydroxy- (118, 18Aloha)- [CAS]	. 51022-69-6	u G	2437847	Antinsoniasis	
AMD-3100	1,4,8,11-Tetraazacydotetradecane, 1,11-(1,4-phenylenebis(methylene))bis-, octahydrochloride [CAS]	155148-31-5		5612478	Haematological	Chemotherapy-induced injury, bone marrow. (eucopenia
Amdinocillin Amdinocillin Pivoxil		32887-01-7 32886-97-8	 ·•·			
amdoxovir	1,3-Dioxolane-2-methanol, 4-(2,6-diamino-9H-purin-9-yl)- (2R-cis)- [CAS]	145514-04-1	<u> </u>	82229	Antiviral, anti-HIV	Infection, HIV/AIDS
amelubant	Carbamic acid, ((4-((3-((4-(1-(4-hydroxyphenyl)-1-methylethyl)phenoxy)methyl)phenyl)methoxy)phenyl)minomethyl)-ethyl ester [CAS]	346735-24-8		10000907	COPD treatment	Chronic obstructive pulmonary disease
	Benzenemethanaminium, N.N-dimethyl-N- [2-{2-{4-{1,1,3,3-}}} tetramethylbutyl)phenoxyjethoxyjethylj-, chloride, mixt. with ethyl 4-aminobenzoate					
Americaine	[CAS]	129128-13-8	· · ·		Formulation, inhalable, other	Pain, general
Amezinium		30578-37-1	••		-	
Amidephrine		3354-67-4	• ••			
Amidinomycin		3572-60-9	_			

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API Generic Name	API Chemical Name	CAS No.	Reference	ence	Example of Therapeutic Use	Example of indication Chemotherapy-induced injury.
amifostine	Ethanethiol, 2-[(3-aminopropyl)aminoj-, dihydrogen phosphate (ester)- [CAS]	20537-86-6 63717-27-1	<u>유</u>	131500	Radio/chemoprotective	renal
	Pentanoic acid, 5-(dipentylamino)-4-((2-naphthalenylcarbonyl)amino)-5-oxo- (R)-					•
amiglumide	[CAS]	119363-62-1 37517-28-5	.₩. Ø	WO 8805774	GI inflammatory/bowel disorders Formulation, optimized,	Pancreatitis
amikacin		39831-55-5				Infection, general
Amiloride		2609-46-3				
Aminacrine		8-04-08				
	Heptanoic acid, 7-{(10,11-dinydro-5ri- ;dibenzo[a,d]cyclohepten-5-yl)amino]-	30272-08-3				
amineptine	[CAS]	57574-09-1	ည် က	3758528	Antidepressant	
Aminitrozole		140-40-9				
Amino Acid	was -					
Preparations			·	٠		-
Aminocaproic Acid						
,	2,6-Piperidinedione, 3-(4-aminophenyl)-3-					hoose hoose
aminoglutethimide	ethyl- [CAS]	125-84-8	3_	3944671	Anticancer, normonal	Caliber, preast
Aminoguanidine		79-17-4				
Aminohippurate	20.00 100 100 100 100 100 100 100 100 100					
Aminometradine		642-44-4				
Aminopentamide	··· •	60-46-8				-
	1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl. compd with 1.2-ethanediamine	~				
aminonhylline	(2:1) [CAS]	317-34-0			Formulation, modified-release, other	Asthma
Aminopromazina		58-37-7	· -		•	
Aminopyrine		58-15-1	• • •			
Aminoauinuride		3811-56-1	• • •			
Aminorex		2207-50-3				
	Methanone, (2-butyl-3-benzofuranyl)[4-[2-	,				
	(diethylamino)ethoxyj-3,5-diiodophenyij- iCASi	1951-25-3	S S	3248401	Antiamhythmic	Arrhythmia, general
		490-55-1	•			
Amiphenazole	ác m	56824-20-5	···			
Amiprilose						

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API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
	Benzamide, 4-amino-N-[(1-ethyl-2-	•				
amisulpride		71675-85-9	S	4401822	Neuroleptic	Schizophrenia
Amitriptyline		50-48-6				
•	1-Propanamine,3-(10,11-dihydro-5H-	•				-
	dibenzo(a,d)cydonepten-5-ylidene)-N,N- dimethyl + cydohexanone,2-(2-				-	
	chlorophenyl)-2-(methylamino)					
amitriptyline+ketamine					Formulation, fixed-dose combinations	Pain, neuropamic
Amitriptylinoxide		4317-14-0	,	_	-	
i i	5H-[1]Benzopyrano[2,3-b]pyridine-3-					
amlexanox	5-oxo-[CAS]	68302-57-8	2	4299963	Antiasthma	Asthma
	3.5-Pyridinedicarboxylic acid, 2-[(2-	:	•	<u>.</u>		
	aminoethoxy)methylj-4-(2-chlorophenyl)-	111470-99-6				
		88150-42-9				
amlodipine	ester [CAS]	88150-47-4	ᇤ	89167	. Antianginal	nypertension, general
Ammoniacum		3/7/9000				
Ammonium Benzoate	•	1863-63-4				
Ammonium Mandelate		530-31-4				
Ammonium Salicylate		528-94-9				
Ammonium Valerate	•	42739-38-8				
Amobarbital		57-43-2				
Amocarzine	-	36390-19-9 86-42-0				
Amodiaguin	Mombaline A 12 /4 /1 1-	7		•		
	dimethylpropyl)phenyl}-2-methylpropyl}-2,6178613-35-1	78613-35-1				•
amoroffine	dimethyl-, cis- [CAS]	78613-38-4	<u>B</u>	24334	Antifungal	Intection, fungal, general
Amoscanate		26328-53-0				
	Benzenesulfonamide, 5-(1-hydroxy-2-[[2-	· -				
· :	(2-methoxyphenoxy)ethyljaminojethylj-2-	:70958-86-0 85320 69 0	ů	126103		Handries agos
amosulakol	[cy-]-(-/-) '-knew	5585-64-8	<u>;</u>	3 8 	Atlanyparansiva, acidiatigic	Typescolous, general
Amornonene	Dibenzib fif1 4loxazenine 2-chion-11-(1-					
amoxapine	piperazinyl)- [CAS]	14028-44-5	89	1192812	Antidepressant	Depression, general
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A Di Conorio Nomo	ADI Chemical Name	CAS NO	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
	4-Thia-1-azobicydo[3.2,0]heptane-2- carboxylic acid, 6-[[amino(4-					
amoxicillin	hydroxyphenyl)acetyljaminol-3,3-dimetryl- (26787-78-0 7-oxo- [2S-[2Alpha,5Alpha,6ß(S¹)]] [CAS] 61336-70-7	26787-78-0 61336-70-7			Formulation, modified-release, other	Infection, general Infection, respiratory tract,
amoxicillin+potassium clavulan		74469-00-4	` B	1508977	Formulation, fixed-dose combinations	general
AMPAlex Amphetamine Amphetaminil	Prperdine, 1-(o-quinoxallinyical bolly)- [CAS]	154235-83-3 300-62-9 17590-01-1	SD .	5650409	Psychostimulant	Attention deficit disorder
amphotericin B	Amphotenicin B compd. with (3ß)-cholest-5/120895-52-5 en-3-yl hydrogen sulfate (1:1) [CAS] 1397-89-3		<u>s</u> .	4822777	Formulation, optimized, liposomes	Infection, general
ampicillin Ampiroxicam Ampilgen	4-Thie-1-azabicyclo{3.2.0]heptane-2-carboxylic acid, 6-[(aminophenylacetyl)amino]-3,3-dimethyl-7-69-53-4 oxo-, [2S-[2Alpha,5Alpha,618(S")]] 99464 38640	69-53-4 7177-48-2 99464-64-9 38640-92-5	**************************************		Formulation, fixed-dose combinations	Infection, general
amprenavir ·	Carbamic acid, (3-(((4- aminophenyl)sulfonyl)(2- methylpropyl)amino)-2-hydroxy-1- (phenylmethyl)propyl)-, tetrahydro-3- furanyl ester, (3S-(3R*(1R*,2S*)))- [CAS]	161814-49-9	Sn Sn	5783701	Antiviral, anti-HIV	Infection, HIV/AIDS
amrinone	[3,4'-Bipyridin]-6(1H)-one, 5-amino- [CAS] [5,12-Naphthacenedione, 9-acetyl-9-amino-		Sn.	4004012	Cardiostimulant	
amrubicin	7-{(2-deoxy-G-D-erythro-pentopyranosyl)oxy}-7,8,9,10-tetrahydro-6,11-dihydroxy-, hydrochloride, (7S-cis)-[CAS]	92395-36-3	<u>a</u>	107486	Anticancer, antibiotic	Cancer, lung, non-small cell
amsacrine	Methanesulfonamide, N-[4-(9- acridinylamino)-3-methoxyphenyl]- [CAS]	51264-14-3			Anticancer, other	Cancer, leukaemia, acute lymphocytic

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API Generic Name	API Chemical Name	CAS No.	Ref	Reference	Example of Therapeutic Use	Example of Indication
	Glygne, N-II 1-memyl-5-(4-memylenzoy)l-14-pyrrol-2-yfjacetyfj-, 2-methoxyphenyl					
amtolmetin guacil	ester [CAS]	87344-06-7	8	2115417	Analgesic, NSAID	Arthritis, rheumatoid
Amylocaine		532-59-2				
AN-152	•		8	9719954	Anticancer, antibiotic	Cancer, prostate
anabolic steroids		,	8	9848812	Cardiovascular	Heart failure
Anagestone		2740-52-5				
l	Imidazo(2,1-b)quinazolin-2(3H)-one, 6,7-	58570.51.A	-			
anagrelide	[CAS]	68475-42-3	8	1418822	Haematological	Thrombocytosis
· · · · · ·	1.3-Benzenediacetonitrile,		۰) 	
	Alpha, Alpha, Alpha, Alpha'-tetramethyl-5-					
anastrozole	(1H-1,2,4-triazol-1-ylmethyl)- [CAS]	120511-73-1	<u>a</u>	296749	Anticancer, hormonal	Cancer, breast
Anazolene		3861-73-2				
Ancitabine	-	31698-14-3				-
Ancrod	÷ .	9046-56-4			****	
1	N-4'-{5-Tetrazolyl}-phenyl-4-(5-tetrazolyl)-		4			
	benzamide					
andolast		132640-22-3	ᇜ	460083	Antiasthma	Asthma
Androisoxazole		360-66-7				
Androstenediol		521-17-5				
···	21-(Acetyloxy)-17-hydroxypregna-4,9(11)-					
anecortave		7753-60-8			Oohthalmological	Moorifor documenting
		440000				Waculal degeneration
Anethole		4180-23-8; 404 46 4			-	
		-04-40				
:		(unspecified)	,			
Anethole Trithione		532-11-6			:	
Angiogenix		!	<u>s</u>	6417205	Cardiovascular	Cardiomyopathy, ischaemic
Anglotensin		1407-47-2				
	Vincaleukoblastine, 3',4'-didenydro-4'-	20200 46.0			;	
annyarovinbiasune	[cko]-(xoap	56580-45- 5	3	6011041	Anticancer, other	Cancer, general
	Echinocandin B, 1-((4R,5R)-4,5-dihydroxy-					
anidulafungin	,N2-{(4"-(pentyloxy)(1,1':4',1"-terphenyl)-4- ,vl)carbonyl}-L-omithine)- [CAS]	166663-25-8	<u>~</u>	6384013	Antifinas	Infertion Condida popular
					- Arianangai	miccuoli, Candida, general

API Generic Name Anileridine Aniracetam Anisindione	API Chemical Name	CAS No. 144-14-9 72432-10-1 117-37-3 22862-76-6	Patent Reference	ence ence	Example of Therapeutic Use	Example of Indication
Anisotropine Methylbromide anistreplase Antazoline Anthiolimine	- Anistreplase [CAS]	80-50-2 81669-57-0 91-75-8 305-97-5 1143-38-0	<u> </u>	28489	Fibrinolytic	Infarction, myocardial
Anthramycin Anthrarobin anthrax inhibitor antiangiogenic dendrimers	L-Ascorbic acid, mixt with 2- (diethylamino)ethyl 4-aminobenzoate	4803-27-4 577-33-3	2 S	6436933 6426067	Anti-infective, other Anticancer, other	Infection, anthrax Cancer, general
Anticort antidepressants	monohydrochloride, disodium hydrogen uphosphate, potassium benzoate and zinc sulfate (1:1) [CAS]	186646-39-9		9640038 5898036	Anabolic Antidepressant	'Cachexia Depression, general
anti-invasins Antimony Potassium Tartrate		28300-74-5 539-54-8	ສ ·	6303302	Antifungal	infection, fungal, general
Thioglycollate Antimony Thioglycollamide	19-Norpregna-4,9-dien-3-	6533-78-4				
Antiprogestin Antipyrine Antipyrine Salicylate	pentafluoro-17-hydroxy-(118,17Alpha) [CAS]	211254-73-8 60-80-0 520-07-0	범. -	19706061	Anticancer, hormonal	Cancer, breast
antithrombin III	Antithrombin, III [CAS]	9000-94-6			Blood fraction	Antithrombin III deficiency

API Generic Name	API Chemical Name	CAS No.		Patent Reference	Example of Therapeutic Use	Example of Indication
anxiolytics	- 1		" 2	95595/6	Anxiolytic	י מינינים לי
	N-Piperonyl-2-amino-1,2,3,4- tetrahydrobenzo(b)thieno(2,3-c)pyridine-3-					
AP-521	carbamide	151227-08-6			Anxiolytic	Anxiety, general
AP-5280			<u>s</u>	5965118	Anticancer, alkylating	Cancer, general
Apalcillin		63469-19-2				
	1H-Indole-4,7-dione, 5-(1-aziridinyl)-3-					
	(hydroxymethyl)-2-(3-hydroxy-1-propenyl)-	!			1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	יייייייייייייייייייייייייייייייייייייי
apaziquone	1-methyl-, (E)- [CAS]	114560-48-4	8	8706227	Anticancer, aikyiating	Calles, preast
Apazone		13539-59-8				
α-Phenylbutyramide		90-26-6			_	
Apocodeine		041-30-1				
•	Phosphonic acid, (2-(3,5-bis(1,1-					
	dimethylethyl)-4-					
	hydroxyphenyl)ethylidene)bis- tetrakis(1-					ofeigns society
apomine	methylethyl) ester [CAS]	126411-13-0			Anticancer, otner	Calicel, prostate
	4H-Dibenzo[de,g]quinoline-10,11-diol,					
	5,6,6a,7-tetrahydro-6-methyl-,					
	hydrochloride	314-19-2				
apomorphine		58-00-4			Formulation, transmucosal, nasal	Impotence
	1,4-Benzenediamine, 2,6-dichloro-N1-(4,5-66711-21-5	66711-21-5				
apraclonidine	dihydro-1H-imidazol-2-yl)- [CAS]	73218-79-8	<u>s</u>	4517199	. Antiglaucoma	Giaucoma
•	3H-1,2,4-Triazol-3-one, 5-[[(2R,3S)-2-		- 			•
	[(1R)-1-13.5-					
	bis(trifluoromethyl)phenyljethoxyl-3-(4-					Cromothorsoning
	'fluorophenyi}-4-morpholinyi]methyl]-1,2-			!		includes and womiting
aprepitant	dihydro-[CAS]	170729-80-3	3	5/1914/	Antiemetic	nausea and voluming
	1,3-Propanediamine, N-(2,3-dihydro-1H-	33237-74-0		7077007	A - 11 - 41 - 12 - 12	
aprindine	inden-2-yi)-N',N'-dietnyr-N-pnenyr-(CAS)	3/040-/1-4	9	1321424	Anidamiyumic	
Aprobarbital		77-02-1				
Apronalide		528-92-7				
Aprotinin		9087-70-1				
Aptiganel		137159-92-3				
] 11	9,10-Anthracenedione, 1,4-bis((2-					
AOAN	dinydroxy-[CAS]	136470-65-0	S	5132327	Anticancer, other	Cancer, general
-				6204257	Anaesthetic, injectable	Anaesthesia
Aduava:						

API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
AR-116081			S	6107324	Neuroleptic	Unspecified
	(R)-N-{5-methyl-8-(4-methylpiperazin-1-yl)- 1,2,3,4-tetrahydro-2-naphthyl]-4- morpholinobenzamide				,	
AR-A2			•		Anxiolytic	· Anxiety, general
Arachidonic Acid		. 1-76-006				
	s acid, 1,4-dinyaro- henyl)-, methyl 2-	•	-			
aranidipine	oxopropyl ester- [CAS]	186780-90-7	8	2111978	Antihypertensive, other	inypertension, general
	D-Streptamine, O-3-amino-3-deoxy-Alpha-iD-glucopyranosyl-(1-6)-O-[2,6-diamino-2,3,4,6-tetradeoxy-Alpha-D-erythro-					
arbekacin	hexopyranosyl-(1-4)]-N1-(4-amino-2- hydroxy-1-oxobutyl)-2-deoxy-, (S)- [CAS]	51025-85-5 75282-65-4	S	4001208	Aminoglycoside antibiotic	i Infection, general
	1H-indole-3-carboxylic acid, 6-bromo-4- ((dimethylamino)methyl)-5-hydroxy-1-					
Arbidol	methyl-2-((phenylthio)methyl)-, ethylester, monohydrochloride [CAS]	131707-23-8	8	WO 9008135	Immunostimulant, other	Infection, influenza virus
	1,2-Benzenediol, 4-[1-hydroxy-2-[[4-(4-hydroxyphenyl)butyl]amino]ethyl]-, (R)-					
arbutamine	[CAS]	128470-16-6	§	WO 9220324	Diagnostic	Diagnosis, coronary
Arcitumomab	•	154361-48-5				
ardeparin	Heparin [CAS]	9005-49-6			Anticoagulant	· i nrombosis, venous
	1,2,5,6-1 etranydro-1-memyl-3-pynoine carboxylic acid methyl ester		- -			:
arecoline					Formulation, transdermal, patch	Alzheimer's disease
	2-Piperidinecarboxylic acid, 1-{5- [(aminoiminomethyl)amino}-1-oxo-2- [[(1,2,3,4-tetrahydro-3-methyl-8- quinolinyl)sulfonvllaminolbentyll-4-methyl-					
argatroban	[CAS]	74863-84-6	<u>a</u>	.8746	Anticoagulant	Thromb sis, arterial
Arginine		14-79-3		. =		
Ariiloe	2(1H)-Quinolinone, 7-[4-[4-(2,3-					
aripiprazole	dichlorophenyl)-1-piperazinyl]butoxyj-3,4- · dihydro- [CAS]	129722-12-9	ם	367141	Neuroleptic	Schizophrenia

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API Generic Name	API Chemical Name	CAS No.	Patent Reference	ence	Example of Therapeutic Use	Example of Indication
arofylline	1H-Purine-2,6-dione, 3-(4-chlorophenyl)- 3,7-dihydro-1-propyl- [CAS]	136145-07-8	ਜ਼ ੶੶੶ <u>ਖ਼</u> ੶੶	435811	COPD treatment	Chronic obstructive pulmonary disease
arotinolol Arsacetin	2-Thiophenecarboxamide, 5-[2-[]3-[(1,1-dimethylethyl)amino]-2-hydroxypropyl]thio]-104766-23-6 4-thiazolyl]-, (±)- [CAS] (618-22-4 (618-22-4		. ຮາ . ຮາ	3932400	Antihypertensive, adrenergic	Hyper:ension, general
arsenic trioxide Arsphenamine	Arsenic oxide (As2O3) [CAS]	1327-53-3 139-93-5			Anticancer, other	myelogenous
Arsthinol Artether Arteflene		119-96-0 75887-54-6 123407-36-3 (Z				
Artemether Artemisinin		form) 71963-77-4 63968-64-9				
artemotil	3,12-Epoxy-12H-pyrano[4,3-j]-1,2- benzodioxepin, 10-ethoxydecahydro-3,6,9- trimethyl-, [3R- (3Alpha,5aß,6ß,8aß,9aAlpha,10Alpha,12ß, ,12aR*)]- [CAS]	75887-54-6			Antimalarial	Infection, malaria
	Butanedioic acid mono- [(3R,5aS,6R,8aS,9R,10R,12R,12aR)- decahydro-3,6,9-trimethyl-3,12-epoxy-12H- pyrano[4,3-j]-1,2-benzodioxepin-10- vilester					
artesunate		88495-63-0			Formulation, transmucosal, systemic	Infection, malaria
arzoxifene	Benzo(b)thiophene-6-ol, 2-(4-methoxyphenyl)-3-(4-(2-(1-pipendinyl)ethoxy)phenoxy)- [CAS] Spiro(pymolidine-3,4'(1'H)-pymolo(1,2-		<u> </u>	WO 9609041	Anticancer, hormonal	Cancer, breast
AS-3201		147254-64-6 E	. %	520320	Symptomatic antidiabetic	Diabetic complication, general
ASA	Benzoic acid, 2-(acetyloxy)- [CAS]	56449-07-1			Formulation, modified-release, other	Pain, general

API Generic Name	API Chemical Name	CAS No.	Refere	ratent Reference	Example of Therapeutic Use	Example of Indication
α-Santonin Ascaridole Ascorbic Acid		481-06-1 512-85-6 50-81-7				
asenapine	1H-Dibenz(2,3.6,7]oxepino[4,5-c]pyrrole, 5-choro-2,3,3a,12b-tetrahydro-2-methyl-trans-, (Z)-2-butenedioate (1:1) [CAS]	85650-56-2	8	9523600	Neuroleptic	Psychosis, general
asimadoline	Benzeneacetamide, N-[2-(3-hydroxy-1-pyrrolidinyl)-1-phenylethyl]-N-methyl-Alphaphenyl-, [S-(R*,R*)]- [CAS]	153205-46-0	8	4215213	Gl inflammatory/bowel disorders	Initable bowel syndrome
asoprisnil	imethoxy-17Apha-(methoxymethyl)estra-4,9-dien-3-one	199396-76-4	<u>m</u>	0648778	Menstruation disorders	. Endometriosis
Asoxime Aspartic Acid		34433-31-3 56-84-8				_
Aspidin		584-28-1				
Aspirin		50-78-2			-	
Aspirin, Dipyridamole					-	
	Glycinamide, N-methyl-D-asparaginyl-N-(2-carboxy-3,3-dimethyl-7-oxo-4-thia-1-azabicydo[3.2.0]hept-6-yl)-D-2-(4-hydroxyphenyl)- [2S-(2Alpha,5Alpha,6B)]-					Infection, respiratory tract,
aspoxicilin AST-120	[CAS] AST 120 [CAS]	63358-49-6 90597-58-3	<u> </u>	1533413	Penicillin, injectable :Urological	general Renal failure
Astemizole		68844-77-9			-	
asulacine	4-Acridinecarboxamide, 9-[[2-methoxy-4- ;[(methylsulfony)]amino]phenyl]amino]-N,5- 80841-47-0 ;dimethyl- [CAS]	80841-47-0 80841-48-1	<u> </u>	39224	Anticancer, other	: Cancer, general
-	ividene)-piperdinojethyl}-1-formyl-4- piperidinecarboxamide monohydrochloride					
AT-1015		_			Antithrombotic	Thrombosis, general
atamestane	Androsta-1,4-diene-3,17-dione, 1-methyl- [CAS]	96301-34-7	띰	3338212	Anticancer, hormonal	Cancer, breast

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API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
atazanavir - atenolol	2.5.6.10,13-Pentaazatetradecanedioic acid, 3,12-bis(1,1-dimethylethyl)-8-hydroxy- 4,11-dioxo-9-(phenylmethyl)-6-((4-2- pyridinyl)phenyl)methyl)- dimethyl ester, (3S,8S,9S,12S)-, sulfate (1:1) (satl) [CAS], 229975-97-7 Benzeneacatamide, 4-[2-hydroxy-3-[(1-29122-68-7-methylethyl)amino]propoxy]- [CAS], 73677-19-7		89	1285038	Antiviral, anti-HIV Antihypertensive, adrenergic	Infection, HIV/AIDS Hypertension, general
atenolol + chlorthalidone	Benzeneacetamide, 4-{2-hydroxy-3-{(1-metrylettry)}amino]propoxy}-, mixt. with 2-chloro-5-{2,3-dihydro-1-hydroxy-3-oxo-1H-isoindol-1-y }benzenesulfonamide [CAS] Benzeneacetamide, 4-{2-hydroxy-3-{(1-metrylettry)}amino]propoxy}-+4-{2-nitrocheuvl-2,6-dimethyl-3,5-	73677-19-7	S	3836671	Formulation, fixed-dose combinations	Hypertension, general
atenolol + nifedipine α-Terpineol	dicarbomethoxy-1,4-dihydropyridine	98-55-5 136876-75-6			Formulation, fixed-dose combinations	Hypertension, general
atipamezole	1H-Imidazole, 4-(2-ethyl-2,3-dihydro-1H-inden-2-yl)- [CAS]	104054-27-5	<u>a</u>	183492	Reproductive/gonadal, general	Sexual dysfunction, female
atiprimod dimaleate ATL-146e	2-Azaspivo[4.5]decane-2-propanamine, N.N-diethyl-8,8-dipropyl, dimaleats	130065-61-1	8 S	5744495 6232297	Antiarthritic, immunological	Arthritis, rheumatoid Unspecified
α- Tocopherol atomoxetine	59-02-9 Benzenepropanamine, N-methyl-Gamma- 82248-59-7 (2-methylphenoxy)-, (R)- [CAS] 83015-26-3 1H-Pyrrole-1-heptanoic acid, 2-(4-	***************************************	⊞	52492	Neurological	Attention deficit disorder
atorvastatin	fluorophenyl)-8, delta-dihydroxy-5-(1- methylethyl)-3-phenyl-4- [(phenylamino)carbonyl]- [CAS] Oxytocin, 1-(3-mercaptopropanoic acid)-2-	134523-03-8 134523-00-5	<u> </u>	409281	Hypolipaemic/Antiatherosclerosis	Hypercholesterolaemia
atosiban	(O-ethyl-D-tyrosine) 4-L-threonine-8-L- omithine- [CAS]	90779-69-4	<u>a</u>	112809	Labour inhibitor	Labour, preterm

API Generic Name		CAS No.	Patent Reference	n ence	Example of Therapeutic Use	Example of Indication
atovaquone	1,4-Naphthalenedione, 2-[4-(4- chlorophenyl)cyclohexyl]-3-hydroxy-, trans- [CAS]	95233-18-4	<u></u> -	123238	Antífungal	Infection, Pneumocystis jiroveci
	1,4-Naphthalenedione,2-[4-(4- chlorophenyl)cydohexyl]-3-hydroxy-,trans + N-(4-chloro-phenyl)-N-(1- methylethyl)imidiodicarbonimidic diamide				Antimataria.	Infection malaria
atovaquone + proguanii	Isoquinolinium, 2,2'-[1,5-					
atracurium	proparediy)][bis[1-(3,4- proparediy)][bis[1-(3,4- dimethoxypheny]][bis[1-(3,4- tetrahydro-6,7-dimethoxy-2-methyl-[CAS] 64228-81-5 3-Pyrrolidinecarboxylic acid, 4-(1,3- 3-Pyrrolidinecarboxylic acid, 4-(1,3- 3-Pyrrolidinecarboxylic acid, 4-(1,3- 3-4)		8;	4179557	Muscle relaxant	Surgery adjunct
atrasentan Atrial Natriuretic Peptide	conzocioxor-3/jr.1-12-(cicou)ramino/2- oxoethylj-2-(4-methoxyphenyl) (2R,3R,4S)- [CAS]	173937-91-2 85637-73-6	<u> </u>	9730045	Anticancer, other	Cancer, prostate
Atrolactamide Atropine		2019-68-3 51-55-8	!! _			Infection, respiratory tract,
Augmentin		74469-00-4			Formulation, modified-release, other	general
auranofin Aurothioalucose	Gold, (1-thio-ß-D-glucopyranose 2,3,4,6- (etraacetato-S)(triethylphosphine)-[CAS]	34031-32-8 12192-57-3	S.	3708579	Antiarthritic, other	Arthritis, rheumatoid
avasimibe	Sulfamic acid, [[2.4,6-tris(1-methylethyl)phenyljacetyll-, 2,6-bis(1-methylethyl)phenyl ester [CAS]		a,	5491172	Hypolipaemic/Antiatherosclerosis	Atherosclerosis
Avobenzone AWD-12-281 Azacitidine	AWD 12-281 [CAS]	257892-33-4 320-67-2			Antiallergic, non-asthma	Rhinitis, allergic, general
Azacyclonol	2-Pyrimidinamine, 4-{2-(1-methyl-5-nitro-1H-imidazol-2-yl)ethenyl](E)- [CAS]	115-46-8	SN ST	3882105	Antibacterial, other	Infection, trichomoniasis

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API Generic Name	API Chemical Name 1H-Pyrazolo[1,2-a][1,2,4]benzotriazine- 1 2/2013 (control of directhularino) 0 methyle	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
azapropazone Azzeorine	2-propyl- [CAS]	13539-59-8 115-02-6	표,	1440629	Anti-inflammatory	
	boxamide, N-1- chloro-3,4-	123040-16-4 123040-94-8 123040-96-0				
azasetron	rs.	123040-69-7	<u>u</u>	313393	Antiemetic	Nausea and vomiting, general
Azatadine		3964-81-6				
	6-{(1-Methyl-4-nitro-1H-imidazol-5-yl)thioj- 1H-purine				•	Transplant rejection, bone
azathioprine		446-86-6			Formulation, oral, other	тапом
	glycine				4	O.i. O.i.
AZD-4282					Anaigesic, orner	rain, neuropaune
	3,4 Diffuorophenylcydopropylamine					Throat contract
AZD-6140		1			Anumombouc	ringingosis, artenai
azelaic acid		123-99-9			Antiacne	Acne
	-1(2H)-Phthalazinone, 4-[(4-					
	methyl-1H-azepin-4-yl)-,	58581-89-8				
azelastine	monohydrochloride [CAS]	79307-93-0	8	1377231	Antiasthma	Asthma
	3,5-Pyridinedicarboxylic acid, 2-amino-1,4-idihydro-6-methyl-4(3-nitrophenyl)-, 3-[1-idihydro-6-methyl-3-arabidinyl-5,7]					
oricibial control	(diphenyuneunyi)-5-azeudinyij 5-(1- methylathylyester (+/-b-ICAS)	123524-52-7	<u>a</u>	266922	Antihypertensive other	Hypertension, general
audini ilaza		12020 00 0	<u>i</u>			
Azidamfenicol		12020-00-9				
Azidocillin	.1	17243-30-0 170008-53-2	:	_4		
Azimilide Azintamide		1830-32-6 76901-95-0			,	
	.9-deoxo-9a-aza-9a-methyl-9a-	83905-01-5			-	Infection, respiratory tract,
azithromycin	homoerythromycin-A	92395-24-9	<u>ട</u>	4328334	Macrolide antibiotic	lower
·	4-Thia-1-azabicyclo[3.2.0]heptane-2-		 -	*		
	בפונטמאווכ פכע, אישימוופטוארו-טאט-טקוווונצ-			··		
	olidinyl)carbonyl]amino]phenylacetyl	1			a para lacan ya	
azlocillin]amino}-, [2S-[2.alpha.,5Alpha,6ß(S*)]]- [CAS]	37091-65-9 37091-66-0	89	1392849	Penicillin, injectable	Infection, general

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API Generic Name	API Chemical Name	CAS No. 27589-33-9	Refe	Reference	Example of Therapeutic Use	Example of Indication
	:Propanoic acid, 2-[[[1-(2-amino-4-thiazoly])- 2-{(2-methyl-4-oxo-1-sulfo-3-					
azfreonam	azetutriyi ariinoj-z- oxoethylidene]aminojoxy]-2-methyl-, [2S- [2Aloha,38(2)]HCAS]	104184-69-2 78110-38-0	8	2071650	Beta-lactam antibiotic	Infection, general
azulene	8-dimethyl-1-	6223-35-4	<u> </u>	88958	ا Formulation, modified-release, other	Inflammation, general
	o[3.2.0]heptane-2-	1	,			
	7				_	-
	oxo-, 1-{(ethoxycarbonyl)oxyjethyl ester, ::	37661-08-8 50972-17-3	<u> </u>	1363506	Penicillin oral	Infection, general
Bacitracin		1405-87-4	3			
					in the second se	Coactic paralysis
Dadoten Daizalain		491-67-8		-	רסיווונימוטוי, ווויסימווי	
Dalcalelli) ;			•••	
	3-Quinolinecarboxylic acid, 1-cyclopropyl-6, 81,000-1 4-dibudro-8-methoxy-7-13-					
balofloxacin	(metrylamino)-1-piperidinyl-4-oxo- [CAS] '127294-70-6	127294-70-6	<u>B</u>	342675	Quinolone antibacterial	Infection, urinary tract
	Benzokc acto, 5-[[4-[](2- carboxyethyl)aminolcarbonyljphenyljazo}-2					
balsalazide	hydroxy-, (E)- [CAS]	80573-04-2	ട	4412992	GI inflammatory/bowel disorders	Colitis, ulcerative
	Carbamic acid, dimethyl-, 5-[2-[(1,1-dimethylethyl)-1.3-					
	phenylene ester, monohydrochloride	81732-46-9			:	
bambuterol	[CAS]	81732-65-2	<u>.</u>	43807	Antiasthma	Asthma
Barnethan Ramifylline		3/03-/9-5 2016-63-9				
Bamipine	-	4945-47-5 57 44 5				
Baroltai	3 6. Paridipodicarboxalic acid 1 4-dibydra-					_
	2,6-dimethyl-4-(3-nitrophenyl)-, methyl-1- (phenylmethyl)-3-pyrrolidinyl ester, [S- (R*,R*)]-	104713-75-9 104757-53-1				
bamidipine		71863-56-4	മ	4220649	'Antihypertensive, other	Hypertension, general

API Generic Name	Name	CAS No.	Patent Reference		Example of Therapeutic Use	Example of Indication
	N-Methyl-3-[2-(2- napthyl)acetylamino]benzamide				•	
BAS-118	•				Antibacterial, other	Intection, Helicopacter pylori
Basic Aluminum	•	1339-92-0				
Carbonate Gel			-	•		
Basiliximab		179045-86-4				
Batimastat	•	130370-60-4		-		
Batroxobin		9039-61-6		•		
	5-cyclopropyl-2-{1(2-fluoro-benzyl)-1H-lovrazolof3 4-blovridine-3-vllovrimidin-	1				
	4ylamine					Sexual dysfunction, male,
Bay-41-2272	-			•	Male sexual dysfunction	general
1	2-{1-(2-Fluorobenzyl)-1H-pyrazolo{3,4-ibpyridin-3-yi}-5-(4-mopholinyl)pyrimidine-		-			
Bav-41-8543	4,6-diamine				Cardiovascular	Unspecified
	.N-(4-chloro-3-(trifluoromethyl)phenyl)-N-(4-cyl-methylcarbamoyl)-4-cychdyloxylohenylyurea		-	-		
BAY-43-9006					Anticancer, other	Cancer, liver
	N-{5(aminosulfonyl)-4-methyl-1,3-thiazol-2-yl]-N-methyl-2-{4-(2-pyridinyl)phenyl]acetamide			•		
BAY-57-1293	-				Antiviral, other	Infection, herpes simplex virus
bazedoxifen	TSE 424 [CAS]	198481-33-3	EP 802183	ස	Osteoporosis treatment	Osteoporosis
B-Benzalbutyramide		7236-47-7				
	Platinum(4+), hexaaminedichlorobis(µ-(1,6-hexanediamine-N:N'')tri- stereoisomer,					
BBR-3464	tetranitrate [CAS]	172903-00-3	US 5744497	497	Anticancer, alkylating	Cancer, lung, non-small cell
BBR-3576		•	US 5519029	. 670	Anticancer, antibiotic	Cancer, prostate
BBR-3610			US 6060616	. 919	Anticancer, alkylating	Cancer, general
ß-Carotene		7235-40-7	·· -			
<u> </u>	(-)-2-R-dihydroxyphosphinyol-5-(S)- (guanin-9'-yl-methyl)tetrahydrofuran			•		
BCH-1868	•			•	Anticancer, antimetabolite	Cancer, general
Bebeerine		477-60-1 501-68-8		•		
Deviamina						

API Generic Name	API Chemical Name	CAS No.	Patent Reference	nt ence	Example of Therapeutic Use	Example of Indication
bedometasone Befloxatone	Pregna-1 4-diene-3,20-dione, 9-chloro- 118,17,21-trihydroxy-168-methyl, [CAS]	5534-09-8 4419-39-0 134564-82-2	 9 	WO 0006132	Formulation, inhalable, solution	Asthma
befunolol Bemegride Benegride	Ethanone, 1-[7-[2-hydroxy-3-[(1-methylethyl)amino]propoxy]-2-benzofuranyl]-[CAS]	39543-79-8 39562-01-7 64-65-3 302-40-9			Antiglaucoma	
benazepri	1H-1-Benzazepine-1-acetic acid, 3-[[1- (ethoxycarbonyl)-3-phenylpropyljamino]- 2,3,4,5-tetrahydro-2-oxo-, [S-(R*,R*)]- [CAS]	86541-74-4 86541-75-5 86541-78-8	EP 7	72352	Antihypertensive, renin system	Hypertension, general
bencydane	1-Propanamine, N,N-dimethyl-3-[[1- (phenytmethyl)cydoheptyl]oxy}-, (E)-2- butenedioate (1:1) [CAS]	14286-84-1 2179-37-5	<u></u> 8 ⊗	9829409	Vasodilator, peripheral	
bendazac Bendroflumethiazide	L-Lysine, mono[[]1-{phenylmethyl}-1H- indazol-3-yljoxy]acetate] [CAS]	81919-14-4 20187-55-7 73-48-3 78718-25-9		2081708	Ophthalmological	
benfluorex Benfotiamine Benfurodil	Ethanol, 2-[[1-methyl-2-[3- (trifluoromethyl)phenylethyljamino]-, ibenzoate (ester) [CAS]	23602-78-0 23642-66-2 22457-89-2 3447-95-8	8	1175516	Hypolipaemic/Antiatherosclerosis	
benidipine Benovalate Benovaprofen Benovinate Benperidol Benproperine	3,5-Pyridinedicarboxylic acid, 1,4-dihydro- 2,6-dimethyl-4-(3-nitrophenyl)-, methyl 1- (phenylmethyl)-3-piperidinyl ester, monohydrochloride (R°,R°)-(+/-)-[CAS]	105979-17-7 91599-74-5 5003-48-5 67434-14-4 99-43-4 2062-84-2 2156-27-6 322-35-0	<u>a</u>	63365	Antihypertensive, other	Hypertension, general

API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
bentazepam Bentiromide Bentoquatam Benzaikonium Benzarone	2H-[1]Benzothieno[2,3-e]-1,4-diazepin-2- one, 1,3,6,7,8,9-hexahydro-5-phenyl[CAS] 29462-18-8 37106-97 1340-69-6 8001-54-6	29462-18-8 37106-97-1 1340-69-8 8001-54-5 1477-19-6	<u> </u>	2005276	. Anxiolytic	
benzbromarone Benzethonium Benzetimide Benzilonium	Methanone, (3,5-dibromo-4-hydroxyphenyl)(2-ethyl-3-benzofuranyl)-[CAS]	33.	<u>ട</u>	3012042	Antigout	
Benziodarone benznidazole	N-benzyl-2-nitrolmidazole-1-acetamide	68-90-6 22994-85-0	. . 89	1138529	Protozoacide	
benzocaine Benzoctamine Benzonatate Benzoxonium Chloride	Benzoic acid, 4-amino-, ethyl ester	94-09-7 17243-39-9 104-31-4 19379-90-9			Formulation, fixed-dose combinations	Pain, musculoskeletal
benzoyl peroxide Benzoylpas Benzoylpas Benzpiperylon Benzquinamide Benzthlazide Benztropine	Peroxide, dibenzoyl [CAS]	94-36-0 13898-58-3 156-08-1 53-89-4 63-12-7 91-33-8			Formulation, other	Acne
benzydamine Benzyl Benzoate Benzylhydrochlorothiazi de Benzylmorphine	1-Propanamine, N,N-dimethyl-3-[[1- 132-69-4 (phenylmethyl)-1H-indazol-3-yl]oxy]- [CAS] 642-72-8 (phenylmethyl)-1H-indazol-3-yl]oxy]- [CAS] 642-72-8 (phenylmethyl)-1H-indazol-3-yl]oxy]- [14297-8	132-69-4 642-72-8 120-51-4 1824-50-6 14297-87-1	·		Stomatological, reproductive/gonadal, anti-inflammatory	

API Generic Name Bephenium	API Chemical Name	CAS No. 3818-50-6	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
Hydroxynaphthoate						
henotastine	1-Piperidinebutanoic acid, 4-((4-chlorophenyl)-2-pyridinylmethoxy)-, (S)-, monobenzenesutfonate [CAS]	190786-44-8 190786-43-7	<u> </u>	WO :9829409	Antialleroic non-asthma	Alleray general
	1-Pyrrolidineethanamine, ß-[(2-	64706-54-3	<u> </u>			
bepridii	methylpropoxy)methyl}-N-phenyl-N- (phenylmethyl)- [CAS]	74764-40-2 74764-75-3	<u>a</u>	146155	Antianginal	Angina, general
	1H-Cyclopenta[b]benzofuran-5-butanoic acid, 2,3,3a,8b-tetrahydro-2-hydroxy-1-(3-	88475-69-8	9			
Deraprost Derherine	יואסוסאלילוואסיים במפוים אינושיון באסו ליאוואים וואסוסאיים	2086-83-1	3	44/4007	Flostagianoiri	relipiielal vastulai disease
Bergapten		484-20-8		.		
Bermoprofen		78499-27-1				
Besipirdine		119257-34-0				
	2-Pyridineethanamine, N-methyl-, dihydrochloride	5579-84-0				
betahistine		5638-76-6			Formulation, modified-release, <=24hr	Meniere's disease
betaine	Betaine- [CAS]	107-43-7			Metabolic and enzyme disorders	Homocystinuria
	Pregna-1,4-diene-3,20-dione, 9-fluoro-					
betamethasone	[CAS]	378-44-9			Formulation, dermal, topical	Psoriasis
Betamipron		3440-28-6	 -	··· ·,		
Betasine		3734-24-5			-	_
:						
betaxolol	(cyclopropylmethoxy)ethyljphenoxyj-3-[(1- methylethyl)aminol- [CAS]	63659-18-7 63659-19-8	s	4252984	Antihypertensive adreneroic	Hypertension, general,
Betazole		105-20-4				
Bethanechol		590-63-6		*****		
Bethanidine		55-73-2				
Betoxycaine		3818-62-0				
8-Eucaine		500-34-5			• •	
	2-Propanol, 1-[[2-(3,4-dimethoxyphenyl)ethyl]amino]-3-(3-	42864-78-8				
bevantoloi	methylphenoxy)- [CAS]	59170-23-9	<u>s</u>	3857891	Antihypertensive, adrenergic	Hypertension, general
Bevonium		5205-82-3				

API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
bexarotene	Benzoic acid, 4-(1-(5,6,7,8-tetrahydro- 3,5,5,8,8-pentamethyl-2- .naphthalenyl)ethenyl)- [CAS]	153559-49-0	<u> </u>	WO 9321146	Anticancer, other	Cancer, lymphoma, T-cell
bezafibrate	Propanoic acid, 2-[4-[2-[(4-chlorobenzoyl)amino]ethyl]phenoxy]-2-methyl- [CAS]	41859-67-0	89	1359264	Hypolipaemic/Antiatherosclerosis	
Bezitramide		15301-48-1				
BG-9928	40.44 -dibudra-10-hudraxvimina-5H-	166374-48-7			:Cardiostimulant	Heart failure
BIA-2-024	dibenz/b,/fazepine-5-carboxamide	199997-15-4	8	9745416	Antiepileptic	Epilepsy, general
BIA-2-093	(S)-(-)-10-acetoxy-10,11-dihydro-5H-dibenzo/b,flazepine-5-carboxamide [CAS] 236395-14-5 [1-[3,4-dihydroxy-5-nitrophenyl]-2-phenyl-	.236395-14-5			Antiepileptic	Epilepsy, general
BIA-3-202 Bialamicol	emanone	274925-86-9 493-75-4	<u>G</u>	1010688	Antiparkinsonian	Parkinson's disease
biapenem	5H-Pyrazolo[1,2-a][1,2,4]triazol-4-ium, 6- [[2-carboxy-6-(1-hydroxyethyl)-4-methyl-7- ioxo-1-azabicyclo[3,2.0]hept-2-en-3-yi]thio]- 6,7-dihydro-, hydroxide, inner salt, [4R- [4Alpha,58,68(R*)]]- [CAS]		<u> </u>	289801	Beta-lactam antibiotic	Infection, beta-lactamase resistant
Bibenzonium Bibrocathol		15585-70-3 6915-57-7				
:	Propanamide, N-{4-cyano-3- (trifluoromethyl)phenyl}-3-{(4- fluorophenyl)sulfonyl}-2-hydroxy-2-methyl-,					
bicalutamide	(+/-)- [CAS]	90357-06-5	<u>m</u>	100172	Anticancer, hormonal	Cancer, prostate
bicifadine	methylphenyl)-, (+/-)- [CAS]	71195-57-8		2740562	Analgesic, other	Pain, general
bicyclic monoterpene diols		-	S.	6294585	Dermatological	Unspecified
Bidisomide Bietamiverine		116078-65-0 479-81-2 6888-11-5			11	
Sietanautine		C-11-00001				

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		;	Patent	¥		;
API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
amdiasparal		P :				
	1-Butanamine, N-methyl-4-[2-				•	
	(phenylmethyl)phenoxy]-, hydrochloride	62232-46-6				
bifemelane	[CAS]	90293-01-9	<u>ფ</u>	1512880	Cognition enhancer	Attention deficit disorder
Biffuranol	•	34633-34-6				
	•	60628-96-8				
	1H-Imidazole, 1-([1,1'-biphenyl]-4-	60629-08-5				
bifonazole		60629-09-6	ട	4118487	Antifungal	Infection, fungal, general
	5-Hantanamide 7-(3 5-dihydroxy-2-(3-	•			,	
	hydroxy-5-phenyl-1-pentenyl)cyclopentyl)-					
	N-ethyl (1R-					
	(1Alpha(Z)28/1F 3S 3Alpha 5Alpha))					
		1455205.00.4	9	6600010		
pimatoprost		1-00-007cc1	3	SL9990C	Prostagiandin	Giaucoma
	N-{2-hydroxy-3-(1-piperidinyl)propoxy}-3-					
	pyridinecarboximidoyl chloride, (Z)-2-					
bimoclomol	butarredioate (1:1)	130493-04-8	ട്ട	5147874	Symptomatic antidiabetic	Neuropathy, diabetic
	(1 1"Rinhanvill 3 acetic acid 3' 3" (1 8.	· · · · · · · · · · · · · · · · · · ·				
	hexanediv()bis/6'-Alpha-D-					
himosiamosa	mannonvanosvioxv)- ICASI	187250 ALE	<u>u</u>	SAAAOSO	Antiochtmo	Act has
200000000000000000000000000000000000000	for many formation of the second seco		3			
Binifibrate	,	69047-39-8				
	Adenocine 2					
	://www.mest.z-	144349.09.3				
	[פרט] קטוואסוטנוניסוניסניסיניון (פרט) קטוואסוטניסינים (פרט)				Tary	Diagnosis, coronary
Biomed-101		•	ട	6423744	Anticancer, other	Cancer, renal
Biotin		58-85-5				
Biperiden	•	514-65-8				-
•	•					
	2-Piperidinecarboxylic acid, 1-(oxo(3,4,5-					
	trimethoxyphenyl)acetyl)-,4-(3-pyridinyl)-1-	,				
	(3-(3-pyridinyl)propyl)butyl ester, (S)-, 2-					
	hydroxy-1,2,3-propanetricarboxylate (1:2)	174254-13-8				
biricodar	[CAS]	,159997-94-1			Radio/chemosensitizer	Cancer, breast
 	1-Butanone, 1-(4-fluorophenyl)-4-	į !				
	(3,4,6,7,12,12a-					
	:hexahydropyrazino[1',2':1,6]pyrido[3,4-					
biriperone	b]indol-2(1H)-yl)- [CAS]	42021-34-1	8	2333922	Neuroleptic	
Disassatul		603.50.0	1			
Disaporti						

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API Generic Name	API Chemical Name	CAS No.	Refer	Reference	Example of Therapeutic Use	Example of Indication
Ricantrene	•	78186-34-2			•	
Risbentiamine		2667-89-2				
Bisdegualinium		52951-36-7	· 		•	
Bismuth Aluminate		12284-76-3				
Bismuth		53897-25-9				
Butyithiolaurate		52951.37.8				
Bismuth lodosubgallate		138-58-9				
Bismuth Sodium lodide		53778-50-0				
Bismuth Sodium		5798-43-6				
Trighycollamate						
Bismuth Subcarbonate		22650-86-8	••			
Bismuth Subnitrate		1304-85-4				
Bismuth Subsalicylate		14882-18-9				
Bismuth		51/5-83-7	-			
Tribromophenate	2-Propanol, 1-[4-[[2-(1-					
bisoprotol	methylethoxy)athoxy]methyllphenoxy]-3- [(1-methylethyl)amino}- [CAS]	104344-23-2 66722-44-9	88	1532380	Antihypertensive, adrenergic	Heart failure
	2-Propanol, 1-[4-[[2-(1- imethylethoxy)ethoxy]methyl]phenoxy]-3- [(1-methylethyllaminol mixt with 6-chloro-					
bisoprolol + HCTZ	3,4-dihydro-2H-1,2,4-benzothiadiazine-7-sulfonamide 1,1-dioxide				Formulation, fixed-dose combinations	Hypertension, general
	2-Propanol, 1-{4-[[2-(1-methylethoxy)arthoxy]methylphenoxy]-3-[(1-methylethyl)amino] mix. with 6-chloro-3-(dichloromethyl)-3,4-dihydro-2H-1,2,4-benzothjadiazine-7-suffonamide 11-		!			
	dioxide		-			
bisoprolol+trichloromethiazide			_		Formulation, fixed-dose combinations	Hypertension, general

			ratent	1116		;
API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
Bisoxatin	,	14008-48-1				
Bithionol		97-18-7				
Bitolterol		30392-40-6	 -			
Bitoscanate		4044-65-9				
BL-3875		· •	8	0218378	Anti-inflammatory	Unspecified
•		11056-06-7				Josephon Poor
bleomycin	Beomyan [CA2]	450-L450 .	-		romulation, transdermal, entranceu	כמווספו, וופמט מווט וופטא
•	Cycloocta[b]pyridine, 2-(4-ethyl-1-					
blonanserin		132810-10-7	ם	385237	Neuroleptic	Schizophrenia
BMS-184476			ם	639577	Anticancer, other	Cancer, breast
	cis-(+/-)-2-(Ethytthio)-5,7-dihydroxy-8-(3-	,				
	hydroxy-1-methyl-4-piperidinyl)-4H-1-					
BMS-387032	benzopyran-4-one		8	9742949	Anticancer, other	Cancer, general
1	.4-[2-(aminomethyl)-1,3-thiazol-4-yi]-2,6-di-	-	 .	_	•	
	tert-butylphenol, dihydrochloride					
BN-82451					Neuroprotective	Unspecified
<u>.</u>	Ethanesulfonic acid, 2,2'-dithiobis-,	•		-	-	
	im salt					Chemotherapy-induced
BNP-7787		16208-51-8			Radio/chemoprotective	nausea and vomiting
-	5-Benzofuranol, 4,6-bis(1,1-dimethylethyl)-					
BO-653	[2,3-dihydro-2,2-dipentyl- [CAS]	157360-23-1	<u>§</u>	9408930	Hypolipaemic/Antiatherosclerosis	Atherosclerosis
Bolandiol		:19793-20-5			•	
Bolasterone	-	,1605-89-6				
Boldenone		84648-0				
; i	2-Propanol, 1-{(1,1-dimethylethyl)amino}-3-					
	[(2-methyl-1H-indol-4-yl)oxy]-, benzoate	62658-63-3				
bopindolol	(ester), (+/-)- [CAS]	82857-38-3	8	4340541	Antihypertensive, adrenergic	Hypertension, general
Bornyl Chloride		464-41-5				
Bornvi Salicylate	,	560-88-3				-
-,	Boronic acid, [(1R)-3-methyl-1-[[(2S)-1-oxo	·	, -			
	3-phenyl-2-					
	arbonyl)amino]propyl]amino]bu					
bortezomib		:179324-69-7	S	6271199	Anticancer, other	Cancer, myeloma

API Generic Name		CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
	Denzenesunonamoe, 4-(1,1-dimethylethyl)-N-[6-(2-hydroxyethoxy)-5-(2-methoxyphenoxy)[2,2-bipyrimidin]-4-yl}-					
bosentan	[CAS]	147536-97-8	<u>a</u>	633259	Vasodilator, peripheral	Hypertension, pulmonary
BP2.94	Phenol, 2-[[(1R)-2-(1H-imidazol-4-yl)-1-imethylethylliminolohenylmethyll- [CASI	139191-80-3	<u>.</u>	9117146	Rechiration	Original ori
	N-{4-{4-(2-methoxyphenyl)-1-piperazinyl]butyl]naphthalene-2-carboxamide			2	(one indeposit	לפופנים
BP4.897			 	779284	Dependence treatment	Addiction cocaine
B-Propiolactone		57-57-8				
Brain Natriuretic Peptide		140661-97-8 114471-18-0				
Brallobarbital	•	561-86-4				
	8-Azabicydo(3.2.1)octane-2- carboxaldehyde, 3-(3,4-dichlorophenyl)-8- methyl- O-methyloxime (1R-					
brasofensine	(1Alpha,28(E),3Alpha,5Alpha)}- [CAS]	171655-91-7	<u>9.</u> 8	9528401	Antiparkinsonian	Parkinson's disease
Breguinar		96187-53-0	· ···		•	
Bretylium		61-75-6			,	
Brilliant Green		633-03-4				
	6-Quinoxalinamine, 5-bromo-N-(4,5-dihydro-1H-imidazol-2-yl)- [CAS]			2538620	, Antiolaucoma	Glancoma
	2H-Thieno(3,2-e)-1,2-thiazine-6-					
	sulfonamide, 4-(ethylamino)-3,4-dihydro-2-(3-methoxypropyl)-, 1,1-dioxide, (R)-	•				
brinzolamide		138890-62-7	S	5378703	Antiglaucoma	Glaucoma
brivudin	.Urdine, 5-(2-bromoethenyl)-2'-deoxy, (E)- [CAS]	69304-47-8			Antiviral other	and and an electric and the chart
Brodimoprim		56518-41-3				mecaon, vancana zostej vijus
•		1812-30-2				
bromfenac	. benzeneacetic acid, 2-amino-3-(4- bromobenzovi)- [CAS]	91714-93-1				
•		2570 40 0			Torringation, mucosal, topical	inflammation, ocular
Bromindione		33/2-43-8 4446 08 4				
		1140-80-1	-•	•	1	
DIOINSOVALUIL		430-07-3				

API Generic Name Bromocriptine Bromodiphenhydramine	API Chemical Name	CAS No. 25614-03-3 118-23-0	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
Bromoform Bromopride Bromosalicylchloranilid		75-25-2 4093-35-0 3679-64-9				
bromperidol Brompheniramine Broparoestrol	1-Butanone, 4-[4-(4-bromophenyl)-4- hydroxy-1-piperidinyl]-1-(4-fluorophenyl)- [CAS]	10457-90-6 86-22-6 479-68-5 56741-95-8	s	.3438991	· Neuroleptic	Psychosis, general
brostallicin	4-(2-Bromoacrylamido)-N"-(2-guanidinoethyl)-1,1',1",1"-tetramethyl-N,4':N',4"-N",4"-quater-[pyrrole-2-carboxamide] [CAS] 6H-Thieno[3,2-f][1,2,4]triazolo[4,3-	,			'Anticancer, other	Cancer, general
brotizolam Brovincamine Broxuridine Broxyquinoline	al[1,4]diazepine, 2-bromo-4-(2- chlorophenyl)-9-methyl- [CAS]	57801-81-7 57475-17-9 59-14-3 521-74-4	S	4094984	Hypnotic/Sedative	
Bucillamine Bucillamine		83-46-5 1083-57-4 65002-17-7 71119-11-4				
bucladesine Buclizine Buclosamide	Adenosine, N-(1-oxobutyl)-, cyclic 3',5'- (hydrogen phosphate) 2'-butanoate [CAS] 362-74-3 82-95-1	362-74-3 82-95-1 575-74-6	<u> </u>	51113896	Cardiostimulant	Wound healing
Bucolome bucricaine	9-Acridinamine, N-butyl-1,2,3,4-tetrahydro- , monohydrochloride [CAS]	841-73-6			Anaesthetic, local	

API Generic Name Bucumolol	API Chemical Name	CAS No. 58409-59-9	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
budesonide	Pregna-1,4-diene-3,20-dione, 16,17- [butylidenebis(oxy)]-11,21-dihydroxy-, (118,16Alpha)- [CAS]	51333-22-3	. <u> </u>	1429922	Antiasthma	Asthma
budesonide + formoterol	Pregna-1,4-diene-3,20-dione, 16,17-[butylidenebis(oxy)]-11,21-dihydroxy-,(118,1bAlpha) + formamide, N-{2-hydroxy-;5-{1-hydroxy-2-{[2-{4-methoxyphenol}-1-methylethyl]amino]ethyl]phenyl]-{R*,R*}-(±)	·			Formulation, fixed-dose combinations	Asthma
budipine	Piperidine, 1-(1,1-dimethylethyl)-4,4-diphenyl- [CAS]	57982-78-2 63661-61-0	삠	2825322		Parkinson's disease
Budralazine	•• • •	36798-79-5				
Bufeniode Bufetolol		22103-14-6 53684-49-4				
bufexamac	p-butoxyacetohydroxamic acid	2438-72-4	<u>.</u> 3	3479396	Anti-inflammatory	
buflomedii	1-Butanone, 4-(1-pyrrolidinyl)-1-(2,4,6- trimethoxyphenyl)- [CAS]	35543-24-9 55837-25-7	8	1325192	Vasodilator, peripheral	
Buformin		692-13-7				
Bufuralol		54340-62-4				
Bumadizon		3583-64-0				
bumetanide	 benzoic acd, 3-(aminosulfonyl)-5- (butylamino)-4-phenoxy- [CAS] 1-Naphthalenecarboxamide, N-butyl-N-[2- 	28395-03-1	8	3806534	Antihypertensive, diuretic	Hypertension, general
bunaftine	(diethylamino)ethyl]- [CAS]	32421-46-8	씸	2009894	Antiarrhythmic	
Bunamiodyl Sodium		1923-76-8	··			
	1H-1,4-Diazepine, 1-(4-amino-6,7- dimethoxy-2-quinazolinyl)hexahydro-4-(1- i52712-76-2	52712-76-2				
bunazosin	oxobuty()- [CAS]	80755-51-7	8	1398455	Antihypertensive, adrenergic	Hypertension, general
	 Benzonitrile, 2-{3-{(1,1-dimethylethyl)amino}-2-hydroxypropoxy}- 			•		
bunitrolof	[CAS]	34915-68-9	ဌ	3940489	Antihypertensive, adrenergic	
bupivacaine	dimethylphenyl)- [CAS]	24336-33-3 2180-92-9			Formulation modified release >24hr	Angesthesia eigethesia
Bupranolol		14556-46-8				

API Generic Name	API Chemical Name 6 14-Ethenomorphinan-7-methanol. 17-	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
hunrenorohine	(cyclopropylmethyl)-Alpha-(1,1- dimethylethyl)-4,5-epoxy-18,19-dihydro-3- hydroxy-6-methoxy-Alpha-methyl- if5Abha,7Alpha(S)-[CAS]	52485-79-7 53152-21-9	Su	3433791	Analgesic, other	
bupropion	1-Propanone, 1-(3-chlorophenyl)-2-[(1,1-dimethylethyl)amino]-, (+/-)- [CAS]	31677-93-7 34911-55-2 4663-83-6		4425363	Antidepressant	Depression, general
buserelin	Luteinizing hormone-releasing factor (pig), 6-[O-(1,1-dimethylethyl)-D-serine]-9-(N-jethyl-L-prolinamide)-10-deglycinamide-i[CAS]	57982-77-1 68630-75-1		1523623	Releasing hormones	Cancer, prostate
buspirone	8-Azaspiro[4.5]decane-7,9-dione, 8-[4-[4- (2-pyrimidinyl)-1-piperazinyl]butyl]-{CAS]	.36505-84-7	<u> </u>	276536	Anxiolytic	Anxiety, general
busulfan	1,4-Butanediol, dimethanesulfonate [CAS] 55-98-1	55-98-1	· 		Formulation, optimized, microparticles	Cancer, general
busulfan Butabarbital	1,4-Butanediol, dimethanesulfonate- [CAS] 55-98-1 143-8-	55-98-1 143-81-7 149-16-6			Formulation, parenteral, other	myelogenous
Butalbital		22131-35-7 77-26-9				
Butallylonal butamben	4-Aminobenzoic acid butyl ester [CAS]	1142-70-7 94-25-7			Formulation, modified-release, other	Pain, cancer
butamirate Butanillicaine Butaperazine Butaverine Butazolamide Butedronic Acid	Benzeneaœtic acid, Alpha-ethyl-, 2-{2- (diethylamino)ethoxy]ethylester, 2-hydroxy-18109-80-3 1,2,3-propanetricarboxylate (1:1) [CAS] 18109-81-4 3785-21-{ 653-03-2 55837-14	18109-80-3 18109-81-4 3785-21-5 653-03-2 55837-14-4 16790-49-1 51395-42-7			Antitussive 	Cough

			Patent	:	Collection of Thomas and Collection	Example of Indication
API Generic Name	1-Naphthalenemethanamine, N-(4-(1,1-	CA3 RG.	9 9 19 19 19		Example of the apend ose	Evalliple of illuscation
	dimethylethyl)phenyl)methyl-N-methyl-	101827-46-7				
butenafine	CAS	101828-21-1	<u>. </u>	164697	Antifungal	Infection, dermatological
Butethal		77-28-1			,	
Butethamate		14007-64-8	- 			
Butethamine		2090-89-3				_
Buthalital		510-90-7			-	
Buthiazide		2043-38-1				
Butibufen		55837-18-8				
Butidrine		1506-12-3	- - ·			
	benzoic acid, 3,4,5-trimethoxy-, 1,2-					
aciboadia	etranediyibisi(metriyilmino)(z-etriyi-z, i- lethanedivi)) ester IS-(R* R*)- ICAS)	.33/83-84-/ .55769-65-8	. SS	4021473	Antiarrhythmic	Armythmia, general
	1H-Imidazole, 1-[4-(4-chlorophenyl)-2-) } }				
	[(2,6-dichlorophenyl)thio]butyl]-, (+/-)-	64872-76-0				
butoconazole	[CAS]	64872-77-1	89	1567431	Antifungal	Infection, Candida, general
Butoctamide		32838-26-9				-
Butofilolol		64552-17-6			-	
	Mombinan-3.14-diol. 17-(cyclobutylmethyl)				,	
	[S-(R*,R*)]-2,3-dihydroxybutanedioate					
butorphanol	(1:1) (salt) [CAS]	58786-99-5	89	1412129	Analgesic, other	
Butoxycaine		3772-43-8				_
Butriptyline		35941-65-2				
Butropium		29025-14-7				•
Buzepide	•	3691-21-2				
BVT-5182			8	WO 0208178	Anorectic/Antiobesity	Obesity
	2H-1,2-Benzoselenazine, 3,4-dihydro-4,4-					
BXT-51072	dimethyl- [CAS]	173026-17-0			GI inflammatory/bowel disorders	Colitis, ulcerative
	6H-Imidazo[4,5,1-de]acridin-6-one, 5-[[2-					• .
	(diethylamino)ethyljamino]-8-hydroxy					
7	ZHCI, ZHZO				A	
2					Anicancer, omer	Cancer, general
	Ergoiine-6-carboxamide, N-13- (dimethylamino)propyl]-N-					-
;;;	[(ethylamino)carbonyl]-6-(2-propenyl)-,	81409-90-7	9	2103603	A stine of the stile	
Cabalgollia	(opp) (co)	00020071		2103003	Anuprotectin	Galacionnoea

			Patent		
API Generic Name Caberdoline	API Chemical Name	CAS No. 81409-90-7	Reference	Example of Therapeutic Use	Example of Indication
Cacodylic Acid Cactinomycin		75-60-5 8052-16-2 94820-09-4		Anti-infective, other	Ulcer, venostasis
Cadmium Salicylate Cadralazine		19010-79-8 64241-34-5 30924-31-3	· · · · · · · · · · · · · · · · · · ·	-	
Cafeine Cafeine Calcifediol	1,2,3,-Propanetricarboxylic acid, 2-hydroxymix, with 3,7-dihydro-1,3,7-trimethyl-1H-purine-2,6-dione [CAS]	68-22-7 58-08-2 19356-17-3		Respiratory	Apnoea
Calcipotriene calcipotriol	9,10-Secochola-5,7,10(19),22-tetraene- 1,3,24-triol, 24-cyclopropyl- (1Alpha,38,52,7E,22E)- [CAS]	112965-21-6	WO 8700834	Antipsoriasis	Psoriasis
	9, 10-Secochola-5, 7, 10(19), 22-tetraene-1, 3, 24-triol, 24-cyclopropyi-1, 14 pha, 38, 52, 76, 22E) + Pregna-1, 4-diene-3, 20-dione, 9-chloro-118, 17, 21-trihydroxy-168-methyl, 17, 21-dipropionate			Formulation fixed-close combinations	Psoriasis
calcitriol Calcitrin 3-Amothio-2-	9,10-Secocholesta-5,7,10(19)-triene- 1,3,25-triol, (1Alpha,38,5Z,7E)- [CAS]	32222-06-3 5743-29-3		Antipsoriasis	Psoriasis
propanol-1-sulfonate Calcium Acetylsalicylate		69-46-5			
Calcium		33659-28-8			
Bromolactobionate Calcium Carbonate Calcium Gluconate Calcium		471-34-1 299-28-5 27214-00-2			

			Patent	int	i	
API Generic Name	.xy-3,3-	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
calcium honautothenate	oimemyibutyramidojbutyrate (hemihydrate) [CAS]	17097-76-6	<u>a</u>	117260	Neurological	Attention deficit disorder
Calcium Indobehenate		1319-91-1	 .			
Calcium Iodostearate	1-	1301-16-2				
Calcium Lactate		814-80-2		• •		
Calcium Levulinate	·	591-64-0		,		
Calcium Mesoxalate		21085-60-9	•			
Calcium N-	•	16649-79-9				
Carbamoylaspartate		10				
calcium polycarbophii	Polycarbophil, calcium salt- ICAS1	1726040-58-2 19003-97-8			Gl inflammatory/bowel disorders	Irritable bowel syndrome
Calcium Pronionate		4075-81-4				•
Calcium Succinate		140-99-8				
:	5-methyl-2-(1-piperazinyl)-benzenesulfonic				-	
100	aca monoriya ata	1123804.44.1			Cardioctimulant	Heart failing
in any and a		10000				
Calusterone		1/021-26-0			- •	
Camazepam		36104-80-0				
	Benzeneacetic acid, 4-[[4-					-
	[(aminoiminomethyl)aminojbenzoyljoxy]-,	59721-28-7				
-	z-(dimeniylamino)-z-oxogulyi ester,	03/21/29-0		62,7001		
Camostat	monomeunanesunonare [CAS]	8-80-8/OL/	3_	4021472	GI Inflammatory/bowel disorders	Pancreatitis
Camphor		76-22-2		-		
Camphotamide		4876-45-3				
	4-Ethyl-4-hydroxy-1H-pyrano-					
	[t3 4:5,7 jindoizinoi[1,2-5,jquinoime- 3,14(4H,12H)-dione					
camptothecin					Formulation, optimized, microemulsion Cancer, general	Cancer, general
Candesartan		139481-59-7				, \
	1H-Benzimidazole-7-carboxylic acid, 2-ethoxy-1-[[2'-(1H-tetrazol-5-yi)[1,1'-	1				
	biphenyil-4-yijmethyil-, 1- iff(cyclohexyloxy)carbonyiloxylethyl ester					
candesartan cilexetti	(+/-)- [CAS]	123122-55-4	<u>B</u>	520423	Antihypertensive, renin system	iHypertension, general

ieric Name						
	nical Name loro-4-fluoro-phenylamino)-7-(3 -yl-propoxy)-quinazolin-6-yl]-	CAS No.	Patent Reference		Example of Therapeutic Use	Example of Indication
canerinib Canrenone Cantharidin		289499-45-2 976-71-6 56-25-7			Anticancer, other	Cancer, lung, non-small cell
Ma 1-o C2 cantuzumab mertansine	(3-mercapto- nanized	139504-50-0		w .M	mmunotoxin	Cancer, colorectal
capecitabine ((pc	Cytidine, 5-deoxy-5-fluoro-N- [(pentyloxy)carbonyl]- [CAS]	154361-50-9 21434-91-3	EP 602	602454	Anticancer, antimetabolite	Cancer, breast
1H. dicapravirine pyr	1H-imidazole-2-methanol, 5-(3,5-dichlorophenyl)thio-4-(1-methylethyl)-1-(4-pyridinyl)methyl carbamate (ester) [CAS]	178979-85-6 151763-64-3			Antiviral, anti-HIV	Infection, HIV/AIDS
Capsaich cream	N-[(4-hydroxy-3-methoxyphenyl)methyl]-8- methyl-, (E)- [CAS]	404-86-4 486-17-9			Formulation, dermal, topical	Pain, post-herpetic
		62571-86-2	US 410	4105776	Antihypertensive, renin system	Hypertension, general
captopril + HCTZ sulf	4	110075-07-5 5579-13-5	US 421	4217347	Antihypertensive, renin system	
carabersat yl)-	Benzamide, N-(b-acetyl-3,4-dinydro-3-hydroxy-2,2-dimethyl-2H-1-benzopyran-4-iyl)-4-fluoro, (3R-trans)- [CAS]	184653-84-7 77-22-5	WO 981	9811890	Antiepileptic	Epilepsy, general
	<u>.</u>		DE 224	2240599	Antihypertensive, adrenergic	•
carbamazepine CA	car-Dipenzio, jazepine-5-carboxamide [CAS]	298-46-4			Formulation, modified-release, other	Epilepsy, general

		;	Patent	ŧ		;
API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
Carbamide Peroxide		124-43-6				
Carbarsone		121-59-5			•	
Carbaryl		63-25-2				
Carbazochrome		13051-01-9				
		51460-26-5				
	'Methyl-2-benzimidazolecarbamate					
carbendazim					Anticancer, other	Cancer, general
Carbenicillin		4697-36-3				
Carbenoxolone		5697-56-3				
Carbetapentane		77-23-6	•			
	Carbonic acid disodium salt, mixt. with	•••				
Carbicarb	monosodium salt- [CAS]	72227-05-5			Alimentary/Metabolic, other	Acidosis
Carbidopa		28860-95-9				
	S-Alpha Hydrazino-3,4-dihydroxy-Alpha methyl benzene propanoic acid	·· ·				
	monohydrate +3-hydroxy-L-tyrosine					
carbidopa+levodopa-1					Formulation, fixed-dose combinations	Parkinson's disease
Carbimazole		22232-54-8			-	
Carbinoxamine		486-16-8			•••	
Carbocloral		541-79-7				
		151/56-26-2				
carbocysteine	-	038-23-3	<u>.</u>	546272	Cystic fibrosis treatment	Cystic fibrosis
Carbon Tetrachloride		56-23-5				
	Piatinum, diammine[1,1- cyclobutanedicarboxylato(2-)]- (SP-4-2)-					
carboplatin	[CAS]	41575-94-4			Anticancer alkylating	Cancer ovarian
Carboprost	٠	35700-23-3				
	Prosta-5,13-dien-1-oic acid, 9,11,15-					
	trihydroxy-15-methyl-,					
	(5Z,9.alpha.,11Alpha,13E,15S)-, compd.					
lometemost frometemol	with Z-amino-Z-(hydroxymethyi)-1,3- propanediol(1:1) [CAS]	58551-69-2	<u> </u>	3738383		
	2 5-Cyclobeyadiene-1 4-dione 2-12-			7000770		Abortion
	[(aminocarbonyl)oxy]-1-methoxyethyl]-3,6-					
Carboquone		.24279-91-2	~ · 발	1905224	Anticancer, antibiotic	
Carbromal		77-65-6		·		
			ı			

			Patent	=		
				!		
API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
Carbubarb		960-05-4				
Carbitamide	•	339-43-5			-	
		34866.47-2			••	
Carouteroi		1 0 0 0 10 10 10 10 10 10 10 10 10 10 10				
Carfimate		7-95-/965		•		
	:N-Carbamoyl-L-glutamic acid					
carglumic acid	-	1188-38-1			'Metabolic and enzyme disorders	Hyperammonaemia
Caroutocin		33605-67-3				
Carindacillia		35531-88-5				
		159138-80-4				
	- Controlling, In-(controlling) - (controlling)	1460129.81.5	<u>a</u>	580336	Antianginal	Angina general
canponde	[CCC] -/rkinouncikingiii)-C-/ikingikingiii	0-10-001-001	-	2000		
Cariporide		159138-80-4				-
Carisonrodol		78-44-4				-
	1/2H\ Durimidinecarbovamide 5.fluoro-N-					
	Least 9 4 districts 2 4 district [CAS]	.61477 AR.E	2	4071510	Applicancer antimetabolite	
carmotur	יייייייייייייייייייייייייייייייייייייי	01424		10110		
Carmoxirole		98323-83-2				-
	Urea. N.N'-bis(2-chloroethyl)-N-nitroso-	••				
7	1000	154.02.B			Formulation implant	Cancer brain
carmusinue	3	26.	·•	٠	י פוויסיפוריי יייליפורי	
Carnitine		461-06-3				
Caroverine		23465-76-1				
C2:0x32020	•	18464-39-6			-	
Caroxazorie	•					•
Carphenazine	-	7-05-707				
Carpipramine	-	5942-95-0				• •
	9H-Carbazole-2-acetic acid, 6-chloro-		•		•	
ramcolan	Alpha-methyl- (+/-)-[CAS]	53716-49-7	Sn	3896145	Anti-inflammatory	
		0 20 7000	-			
Carsalam		9-ca-7507				
	2/1H\-Ouinolinone 5-[3-[/1 1-					
	dimethylaminoL2-hydroxypropoxyl-	51781-06-7				-
Section	3 4 dibydro- monohydrochloride [CAS]	51781-21-6	<u>v</u>	3910924	Antihyperfensive adreneraic	Glaucoma
Carrector	יייים בייים וויסויסנון מייסנון	0.12.10.10	3	1360160		
Carticaine		23964-58-1				• **
Carubicin		50935-04-1			•••	
Carumonam	•	87638-04-8				
Carrotto		499-75-2				•••
Caracio		1				
	2-Propanol, 1-(9H-carbazol-4-vloxy)-3-[[2-					•
carvedilo	(2-methoxyphenoxy)ethyllaminol-[CAS]	72956-09-3	ш	4920	Antihypertensive, adrenergic	Hypertension, general
Cal vermen	F					

API Generic Name Carvone	API Chemical Name	CAS No. 99-49-0	Patent Reference	ence	Example of Therapeutic Use	Example of Indication
Cascarillin	Pneumocandin B0, 1-((4R,5S)-5-((2-aminoethyl)amino)-N2-(10,12-dimethyl-1-oxotetradecyl)-4-hydroxy-L-ornithine)-5-(15-00-2)-4-hydroxy-L-ornithine)-5-(15-00-2)-4-(15-00-2)-4-(15-00-2)-4-(15-00-2)-4-(15-00-2)-4-(15-00-2)-4	10118-56-6				
caspofungin	(salt) [CAS]	179463-17-3 154-23-4	_6 	9421677	Antifungal	Infection, Aspergillus
cathepsin K inhibitors	N-(1-benzothien-2-ylcarbonyl)-N-[2-(2-fluorophenyl)-4-oxo-1,2,3-4-tetrahydropyrimidin-5-yl-L-leucinamide N-(1-benzothien-2-ylcarbonyl)-N-[2-(2-fluorophenyl)-4-oxo-1,2,3,4-fluorophenyl)-4-oxo-1,2,3,1-leucinamide	!		9613523	Osteoporosis treatment	Osteaporosis
cathepsin S inhibitors			 		Antiasthma	Asthma
CC-401	Rapamycin 42-(3-hydroxy-2- /hydroxomethull-2-methylnopanate)		s s	6342595	Immunosuppressant	Arthritis, rheumatoid
CCI-779	[cAS]	162635-04-3			Anticancer, antibiotic	Cancer, renal
CCR5 antagonists			_	9732019	Antiviral, anti-HIV	Infection, HIV/AIDS
CDC-394 CDC-801			ខ្លួ	634061 5605914	Anticancer, other Gl inflammatory/bowel disorders	Cancer, myeloma Crohn's disease
CEE-03-310	1H-3-Benzazepin-7-ol, 5-(2,3-dihydro-7-benzofuranyl)- 2,3,4,5,-tetrahydro-3-methyl-8-nito, (SS)- [CAS]	128022-68-4	<u> </u>	347672	Dependence treatment	Addiction, alcohol
cefactor	carboxylic acid, (2007) (aminophenylacid) (aminophenylacety) (aminophe	53994-73-3 70356-03-5	8	1461323	Cephalosporin, oral	Infection, Haemophilus influenzae prophylaxis
cefadroxil	5- rina-1-azabaydol4.z.ujod-z-ene-z-carboxylic acd, 7-{[amino(4-hydroxyphenyl)acetyljamino[-3-methyl-8-oxo-, [6R-[6Alpha,7Ik(R*)]]- [CAS] 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-z-	50370-12-2 66592-87-8	<u> </u>	1240687	Cephalosporin, oral	Infection, general
cefalexin	carboxylic acid, 7- [(aminophenylacetyl)amino]-3-methyl-8- oxo-, [CAS]	.105879-42-3 15686-71-2	SU 4	4775751	Cephalosporin, oral	Infection, respiratory tract, upper

			Patent	-		
API Generic Name	API Chemical Name	CAS No.	Reference	nce	Example of Therapeutic Use	Example of Indication
	5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2- carboxytic acid, 7- [(aminophenylacely/)amino]-3-methyl-8-					
afalaxin nivoxil	oxo-, (2,2-dirnethyl-1-oxopropoxy)methyl ester, monohydrochloride, [6R- IGAloha,78(R*)]l- [CAS]	27726-31-4		T.	Cephalosporin, oral	Infection, general
cefamendole	7-D-mandelamido-3[[(1-methyl-1H-tetrazol-5-yl)thio]methyl]-3-caphem-4-carboxylic acid	3444-01-4	გ <u>გ</u>	3641021	Cephalosporin, injectable	Infection, general
	5-Thia-1-azabicyclo(4.2.0)cd:2-ene-2-carboxylic acid, 7-[amino(4-hydroxyphenyl)acetyljamino]-8-oxo-3-[(1H-1,2,3-triazo)-4-yfthio)methylj-, [6R-frabh-270/R-11, [CAS)	51627-14-6	89	1460914	Cephalosporin, oral	Infection, general
Cefazedone Cefazolin Cefninerazone		400			***************************************	
cefcapene pivoxil	78-{(Z)-2-(2-amino-4-thiazolyl)-2- pentanoylamino}-3-carbamoyloxymethyl-3- caphem-4-carboxylic acid, pivaloyloxymethyl ester HCl- [CAS]	ဟ	8	2173194	Cephalosporin, oral	Infection, respiratory tract, general
œfdinir	5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acd, 7-II(2-amino-4-thiazohy)(hydroxymino)acetyl]amino]-3-ethenyl-8-oxo-, [6R-[6Alphe,78(Z)]]- [CAS] 91832-40-5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-II(2-amino-4-thiazohy)(methoxyimino)acetyl]amino]-3-[2-		8	105459	Cephalosporin, oral	Infection, dermatological
cefditoren pivoxil	(4-methyl-5-thiazolyl)ethenylj-8-oxo-, (2,2- 104145-95-1 dimethyl-1-oxopropoxy)methyl ester, [6R- 104146-53-4 [3(2),6-4pha,79(2)]- [CAS]		م	61178991	Cephalosporin, oral	Infection, general

API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
cefepime Cefetamet	Pyrrolidinium, 1-[[7-[](2-amino-4-thiazolyl)(methoxyimino)acetyljamino}-2-carboxy-8-oxo-5-thia-1-azabicydo[4.2.0]oct-2-en-3-yl]methyl]-1-methyl-, hydroxide, inner salt, [6R-[6Atpha,7ß(2)]]- [CAS]	107648-80-6 123171-59-5 88040-23-7 65052-63-3	a	531981	Cephakosporin, injectable	infection, respiratory tract, lower
:	5-This-1-azabicyclo(4.2.0)oct-2-ene-2-carboxylic acid, 7-[[(2-amino-4-thiazoby)]/methoxyimino]acety[amino]-3-methyl-6-oxo-, (2,2-dimethyl-1-oxopoxy)methyl ester,					
cafetamet pivoxil	[CAS] 5-This-1-azabic/do[4.2.0]oct-2-ene-2-	111696-23-2	89	1581854	Cephalosporin, oral	Infection, general
ceficime		79350-37-1	a	30630	Cephalosporin, oraf	Infection, general
cefmenoxime	carboxylic acid, 7-II(2-amno-4-thiazohy)(methoxyimino)acetyljamino}-3-II(1-methyt-1H-tetrazoh-5-yl)thiojmethyl]-8-oxo-, [GR-[6Alpha,78(Z)]]- [CAS] 5-Thia-1-azabicyclo{4.2.0}oct-2-ene-2-carboxyic acid 7.	65085-01-0 75738-58-8	8	1536281	Cephalosporin, injectable	Infection, ocular
cefmetazole	III(cyanomethyl)thio]acetyl]amino]-7- methoxy-3-[[(1-methyl-1H-tetrazol-5- yl)thio]methyl]-8-oxo-, (6R-cis)- [CAS]	56796-20-4 56796-39-5	89	1449420	Cephalosporin, injectable	Infection, general
cefminox	5-This-1-azabicyclo[4.2 0]oct-2-ene-2-carboxylic acid, 7-[[[(2-amino-2-carboxyethyl)thio]acity[]amino]-7-methoxy-3-[[(1-methyl-1H-tstrazol-5-yl)thio]methyl-8-oxo-, [6R-[6Alpha,7Alpha,7(S*)]]-[CAS]	84305-41-9	EP.	24879	Cephalosporin, injectable	Infection, urinary tract

API Generic Name	API Chemical Name	CAS No.	Patent Reference	nce	Example of Therapeutic Use	Example of Indication
efodizime	5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-I[(2-amino-4-thiazolyl)(methoxylmino)acelyljamino]-3-II[5-(carboxymethyl)-4-methyl-2-thiazolyl]thio]methyl-8-oxo-, [6R-file]-[6Alpha,7&[5]]- [CAS]	69739-16-8 86329- <u>7</u> 9-5		4590267	Cephalosporin, injectable	Infection, respiratory tract,
cefonicid	5-Thia-1-azabicydo(4.2.0joct-2-ene-2-carboxyfic acd, 7-[(hydroxyphenylacely/)amino]-8-oxo-3-[[[1-(sulfomethyl)-1H-tetrazol-5-y[lhio]methyl]-, 61270-78-8 disodium salt, [6R-[6Abha,78(R*)]]- [CAS] 61270-58-4		8	1547473	Cephalosporin, injectable	Infection, general
- cefoperazone	5-Thia-1-ezabicyclo(4.2.0]oct-2-earboxylic acid, 7-IIII(4-ettyl-2,3-dioxo-1-piperazinyl)carbonyljamino](4-hydroxyphenyl)acetyljamino]-3-III(1-methyl-1H-tetrazol-5-yl)thio]methyl]-8-oxo-, [6R-l[64lpha,718(R*)]]- [CAS]		<u>.</u>	1508071	Cephalosporin, injectable	Infection, general
cetoperazone + sulbactam		92739-15-6 60925-61-3	2 4	4234579	Antibiotic, other	Infection, general
entoselis	5-Thia-1-azabicycto[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[(2-amino-4-thiazoly)](methoxyimino)acatyljamino]-3-[[[2,3-dihydro-2-(2-hydroxyethyl)-3-imino-1H-pyrazol-1-yl]methyl]-8-oxo-, [6R-[6Apha,78(2)]]		<u></u>	307804	Cephaksporin, injectable	Infection, general
cafotaxime Cefotetan	(6R,TR)-7-[[(2-amino-4-thiazoly])(methoxyimino)acety]amino)ceph 64485-93-4 absporanic acidsodium salt 69712-556	P ₇ :		1580621	Cephalosporin, injectable	Infection, general
cefotiam	5-Thia-1-azabicycło(4.2.0)cct-2-ene-2-carboxylic acid, 7-II(2-emino-4-thiazolyl)acetyljamino]-3-III 1-(2-(dimethylamino)ethyl]-1H-tetrazol-5-yl[thio]methyl]-8-oxo-, (6R-trans)- [CAS]	61622-34-2 66309-69-1	SN SN	4080498	Cephalosporin, injectable	Infection, general

API Generic Name	2,5	CAS No.	Patent Refere	nce	Example of Therapeutic Use	Example of Indication
cefotiam hexetil	aminothiazol-4-ylacetamidoj-3-III-1-(2- dimethylaminoethyl)-11H-tetrazol-5- yfithiojmethyljceph-3-em-4-carboxylate 2HCI [CAS]	95789-30-3	<u> </u>	128029	Cephalosporin, oral	Infection, respiratory tract, lower
cefoxitin	5-Thia-1-azabicyclo(4.2.0)oct-2-ene-2-carboxylic acid, 3-(((aminocarbonyl)oxy)methyl)-7-methoxy-8-oxo-7-((2-thienylacetyl)amino)-,monosodium saft, (6R-cis)- [CAS]	33564-30-6 35607-66-0	89	1348984	Cephalosporin, oral	Infection, general
oefozopran	Imidazo[1,2-b]pyridazinium, 1-[[7-[[6- amino-1,2,4-thiadiazok-3- yl)(methoxyrmino)acetyljaminol-2-carboxy- B-oxo-5-thia-1-azabicyclo[4,2.0]oct-2-en-3- yljmethylj-, hydroxide, inner salt, [6R- [6Alpha,78(Z)]]- [CAS]	113359-04-9	<u>G</u>	203271	Cephalosporin, injectable	Infection, general
сеfріті <u>го</u> ю	Pyridinium, 1-[[2-carboxy-7-[[[[(6-carboxy-1H-imidazol-4-yl)carbony]aminojphenylacsty]aminoj-8-oxo-5-thia-1-azabicyclof4.2.0]oct-2-en-3-yl]methylj-4-(2-sulfoethyl)-, hydroxide, inner salt, [6R-[6Alpha,7/8(R*)]]- [CAS]	84880-03-5 85287-61-2	8	90028	Cephalosporin, injectable	Infection, respiratory tract, general
cofpiramide	5-Thia-1-azabicydof4.2.0joct-2-ene-2-carboxylic acid, 7-IIII(4-hydroxy-6-methyl-3-pyndinyl)carbonyljaminoj[4-hydroxyphenyl)acasyljaminoj-3-II(1-methyl-1H-tatrazol-5-yl)thiojmethyl]-8-oxo-, [6R-[6Apha,718(R*)]]- [CAS] 5H-1-Pyrindinium, 1-II7-II(2-amino-4-	70797-11-4	S	4156724	Cephalosporin, injectable	Infection, general
cerpirome Cerpodoxime Proxetil	thiazoly)(methoxyimino)acetyljaminol-2- carboxy-8-oxo-5-thia-1- azabicyclo[4.2.0]oct-2-en-3-yljmethylj-6,7- dihydro-,hydroxide, inner salt, [6R- [6Alpha,7(2)]]- [CAS]	84957-29-9 98753-19-6 87239-81-4	B	64740	Cephalosporin, injectable	Infection, respiratory tract, lower

API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
cerprozil	5-Thia-1-azabicydol4.2.0]oct-2-ene-2-carboxylic acid, 7-[[amino(4-hydroxyphenyl]acety[[amino]-8-oxo-3-(1-propenyl)-, [6R-[6Alpha,7R(R*)]]- [CAS]	92665-29-7 121123-17-9	8 9	2173798	Cephalosporin, oral	Infection, dermatological
oefroxadine	5-Thia-1-azabicydo(4.2.0]oct-2-earboxylic acid, 7-{(amino-1,4-cyclohexadien-1-ylacetyl)amino}-3-methoxy-8-oxo-, [6R-{6Alpha,78(R*)]]-{CAS}	51762-05-1	89	1435111	Cephalosporin, oral	Infection, general
cefsuodin	Pyridinium, 4-(aminocarbonyl)-1-[[2-carboxy-8-oxo-7- [(phenysutfoacetyl)amino]-5-thia-1- azabicyclo[4.2.0]oct-2-en-3-y[methyl]- hydroxide, inner salt, [6R-[6Alpha,78(R*)]]- 52152-93-9 [CAS]		8	1387656	Cephalosporin, injectable	Infection, pseudomonal
ceflazidine	Pyrdinium, 1-[[7-[[(2-amino-4-thiazoly])[(1-carboxy-1-methylethoxy)imino]acaty[[amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-y[[methyl]-hydroxide, inner salt, [6R-[6Alpha,78(2)]]-[CAS]	72558-82-8	89	2025398	Cephalosporin, injectable	Infection, respiratory tract, upper
Cefteram Ceftezole	5-Thia-1-azabicydd/4.2.0joct-2-ene-2-carboxylic acid, 7-[[2-(2-emino-4-thiazobyl)-4-carboxyl-oxo-2-butenyljamino]-8-oxo-	26973-24-0				Infection, respiratory tract,
certibuten	lor-to-to-to-to-to-to-to-to-to-to-to-to-to-	68401-81-0 68401-81-0	•	1600735	Ocpherosporin, oran Cephalosporin, injectable	infection, general

API Generic Name	API Chemical Name	CAS No.	Patent Reference		Example of Therapeutic Use	Example of Indication
	5-Thia-1-azabicydo[4.2.0]oct-2-ena-2-carboxylic acid, 7-III2-I(2-amino-1-oxopropylamino]-4-					
	thiazolyli(methoxyimino)acetyljaminoj-8- oxo-, (2,2-dimethyl-hoxopropoxy)methyl	13812.04.5				
ceftizoxime alapivoxil	(6Apha,78(Z(S*))]F [CAS]		JP 622(62209112 (Cephalosporin, oral	Infection, general
	5-Thia-1-azabicydo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[(2-amino-4-thiazoh/)/(methoxyrinino)aceh/laminol-8-					
	oxo-3-[[(1,2,5,8-tetrahydro-2-methyl-5,6-doxo-1,2,4-triazin-3-yl)thiojmethyll-, [6R-16Alox-2-7077]	73384-59-5	<u></u>	00000		Infection, respiratory tract,
Celulaxore	5-Thia-1-azabicydo[4.2.0]oct-2-ene-2-				Cepularospolini, injeccame	i page
	carboxylic acid, 3- If(aminocarbonyl)oxylmethyll-7-II2-					
	furany(methoxytmino)acety(jamino)-8-oxo-					
cefuroxime axetil	, 1-(acetyloxy)etryr ester, terk- [6Aipha,70(Z)]]- [CAS]	15686-71-2 64544-07-6	GB 157	1571683	Cephalosporin, oral	Intection, respiratory tract, upper
	5-Thia-1-azabicydo[4.2.0]oct-2-ene-2-			-		
	[[(aminocarbonyl)oxyjmethyl]-7-[[2-					
Cefuroxime	furaryi(methoxyimino)acetyl)amino}-8-oxo- 55268-75-2 , IBR-(6Alpha,78(Z)]]- ICAS		GB 145	1453049	Cephakosporin, injectable	Infection, general
Cefuzonam		7				
-	Benzenesultonamide, 4-(5-(4-methytphenyl)-3-(trifluoromethyl)-1H-		·•			
celecoxib	pyrazot-1-yl)- [CAS] Butanala axid catalandar 1.7 8 tribudarus	169590-42-5	US 576(2760068	Antiarthritic, other	Arthritis, rheumatoid
	Gindolizinyl ester, [15-					Infection, hepatitis virus,
celgosivir	(1Apha,68,7Apha,88,8a8)}- [CAS]	121104-96-9	US 501	5017563 /	Antiviral, other	general
	Urea, N°-13-acety-4-[3-[(1,1-dimethylethylaminol-2-	56980-93-9				
celiprolol	hydroxypropoxylphenyll-N,N-diethyl- [CAS] 57470-78-7		GB 144	1441359 /	Antihypertensive, adrenergic	Angina, unstable
Cellulose Ethyl Hydroxyethyl Ether		9004-58-4				

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API Generic Name	API Chemical Name	CAS No.	Reference		Example of Therapeutic Use	Example of Indication
Centchroman		31477-60-8				
	9,12-Epoxy-1H-diindolo[1,2,3-fg:3,2,1'-klbvmoloi3,4-iii1,6lbenzodiazocine-10-					
	carboxylic acid, 5,16-bis((ethylthio)methyl)-					
	2,3,9,10,11,12-hexahydro-10-hydroxy-9-					
	methy-1-oxo-, methyl ester, (95, 10K, 12K)-	0 00 11701	022400			Darkinson's disease
CEP-1347	[CAS]	1361//43-0	WO 9/31002		Amparkinsonian	
	9,12-Epoxy-1H-diindolo[1,2,3-fg:3',2',1'-			<u>-</u>		
	kilpymolo[3,4-i][1,6]benzodiazocin-1-one,		_			
	2,3,9,10,11,12-hexahydro-10-hydroxy-10-					
	(hydroxymethyl)-9-methyr, (95,105,12K)-	, 60			City do to the city	Cancer proctate
CEP-701	[CAS]	111328-884		Y	Anticancer, anumerabonic	Cancel, prostate
Canhacatrile		23239-41-0				
Controlling		483-17-0				
Ceptideille	•	15696_71_2				
Cephalexin		13000-1 1-2				
Cephalogiycin		5-1-1/05				
Cephaloridine		20-28-9	······································			***
Cephalosporin C		61-24-5				
Cephalothin		153-61-7				
Conhanirin		24356-60-3				
Contractine		38821-53-3		· · · · ·		
Corivertatio		145599-86-6				
Ceronandi		111223-26-8				
Certonatio	Heparin [CAS]	9005-49-6		Antio	Anticoagulant	Thrombosis, venous
Confedido		17650-98-5				- Section 1
	Procta_6 12-dien-1-oic acid 11 15-					-
	directory-9-oxo- (52.11Apha.13E-15S)-					•
Cervinget	ICASI	363-24-6		Form	Formulation, dermal, topical	
		122_18_0	_			
CetalKonium		24010-08-7				
Cetamolo		770 74 7				
Cethexonium		1-41-4611	1			

API Generic Name	API Chemical Name	CAS No.	Patent Referen	92	Example of Therapeutic Use	Example of Indication
	2H-Oxacyclotetradecino(4,3-d)oxazole- 2,6,8,14(1H,7H,9H)-tetrone 4- ethyloctahydro-3a,7,9,11,13,15- hexamethyl-11-((3-(3-quinolinyl)-2- propenyl)oxy)-10-((3,4,6-trideoxy-3- (dimethylamino)-8-D-xylo- loxapyranosyl)oxy)- (3a					Informing resolutions trans
cetromycin Cettedii Cettifine	5,4K, K,5K, IUK, IIK, IJK, IJK, IJK, IJKK [CAS]	205110-48-1 14176-10-4 83881-51-0	8	929563	Macrolide antibiotic	general
cedurzine	Acetic acid, [2-{4-[(4- chlorophenyllphenylmethyl]-1- piperazinyljethoxy]-, [CAS]	83881-51-0 83881-52-1	<u> </u>	58146	Antiallergic, non-asthma	Alergy, general
ofitzine sudventine	Acetic acid, [2-[4-[(4- chlorophenyl)phenylmethyl]-1- piperazinyljethoxy]-, dihyrochloride, Benzenemethanol, Alpha-[1- (methylamino)ethyl]-, hydrochloride, [S-	83881-52-1 90-82-4			Formulation, optimized, microencansulate	Aleray, general
-		137-76-8 25394-78-9				
сетахав	Benzenepropanoic acid, 4-[[[4- (emiromethy))cyclohexyl[carbonyl]oxy]-, trans-[CAS]	27724-96-5 34675-84-8 57-09-0	<u>e</u> ,	48075547	Antiuker	
Cetrimonium Cetrorelix Cetyldimethylethylamm		120287-85-6 124-03-8				
onium Cetylpyridinium cevimeline	Spiro[1-azabicydo[2.2.2]odane-3,5'- [1,3]oxathiolane], 2'-methyt-, cis- [CAS] 7-phenyt-2,4,6-heptatrienoythydroxamic	123-03-5 107220-27-9 107233-08-9	± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±	205247	Stomatological	Sjogren's syndrome
CG-1521 Chaulmoogric Acid Chenodiol		29106-32-9 474-25-9			Anticancer, other	Cancer, general

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API Generic Name	API Chemical Name	CAS No.	<u></u>	Example of Therapeutic Use	Example of Indication
CHF-3381		701 2E E	EP 951465	Anaigesic, omer	rain, neuropainic
Chloracizine		800-22-6			
		302-17-0			
Chloral	1.1-Ethanediol. 2.2.2-trichloro- [CAS]	2218-68-0 515-82-2		Formulation, transmucosal, systemic	Insomnia
Chlorambucil		305-03-3	,		
Chloramine-B		127-52-6			
Chloramine-T		127-65-1			
Chloraminophenamide		121-30-2			
Chlomanhanicol	•	56-75-7			
Chloration		500-42-5		ı	
Chlorbenzoxamine		522-18-9			
Chlorbetamide		97-27-8			
Chlorcyclizine		82-93-9			
Chlordantoin		5588-20-5			
Chlordiazepoxide		58-25-3			
Chlorguanide		500-92-5			
Chloriexadol		3563-58-4			
	2,4,11,13				
Chlothavidina	legazateu zoeczneom noamice, n.n his/4-chlorobenvl)-3 12-dimino- [CAS]	55-56-1		Formulation other	Xemstomia Periodontitis
Chlorisondamine		69-27-2			
Chlormadinone		302-22-7			
Chlormerodrin		62-37-3			
Chlormezanone		80-77-3			
Chlormidazole		3689-76-7			
Chlomaphazine		494-03-1			
Chloroazodin	·	502-98-7			
Chlomoradnicone		52080-57-6			
Chloroprocaine		3858-89-7			
Chloropyramine		59-32-5			

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API Generic Name	API Chemical Name	CAS No.	Reference	Example of Therapeutic Use	Example of Indication
Chloroguine		54-05-7			
Chlorothiazida		58-94.6			
Chlorotrianisene		569-57-3			
Chloroxine	•••	773-76-2			
Chloroxylenol		88-04-0			
Chlorozotocin	:	54749-90-5			
	2-Pyridinepropanamine, Gamma-(4-	000			
chiorphenamine	Gnoropheny)-N, N-dimemyr (CAS)	132-22-9		romulation, modified-release, other	Alergy, general
Chlorphenesin		104-29-0 886-74-8			
Chlorpheniramine		132-22-9			
Chlorphenoxamide		3576-64-5			
Chlorphenoxamine		77-38-3			
Chlorphentermine		461-78-9			
Chlorproethazine		84-01-5			
Chlorproguanii	,	537-21-3	-		
!	4,4'-Sulfonyldianiline + 1-(3,4-				_
	Dichlorophenyl)5-isopropylibiguanide	537-21-3		•	
chlorproguanii + dapsone		9	-	Antimalarial	Infection, malaria
Chlorpromazine		50-53-3			
Chlorpropamide		94-20-2			
Chlorprothixene		113-59-7			
Chlorquinaldol	····	72-80-0			
Chlortetracycline		57-62-5			
Chlorthalidone		77-36-1			
Chlorthenoxazin(e)		132-89-8			
Chlorzoxazone		95-25-0			
Cholic Acid		81-25-4			
Choline		67-48-1			
		2016-36-6			
		28319-77-9			

API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
choline theophyllinate	Ethanaminium, 2-hydroxy-N.N.N-trimethyl-, salt with 3,7-dihydro-1,3-dimethyl-1H-purine-2,6-dione (1:1) [CAS] Ethanaminium, 2-[[(2,3-dihydroxypropoxy)hydroxyphosphiny]loxyl-dihydroxypropoxy)hydroxyphosphiny]loxyl-	4499-40-5			Formulation, modified-release, other	
choline-L-alfoscerate Chromocarb Chromonar Chrysoldine		28319-77-9 4940-39-0 804-10-4 532-8 <u>2</u> -1	<u>ਰ</u>	55028955	Cognition enhancer	Amnesia
CHS-828	Guanidine, N-{6-{4-chlorophenoxy}hexyl}-N-cyano-N"-4-pyridinyl- [CAS] Glycine, N-{2-{5-(aninoimhomethyl}-2-	200484-11-3	ड	5696140	Anticancer, other	Cancer, general
CI-1031	nyaraxyprentaxyr-1-1-4, 3-anyaro-1-methyl-1H-imidazah-2-yliphenoxyj-3,5-difluoro-4-pyridinylj-N-methyl- [CAS]	183305-24-0	9	9638421	Antianginal	Angina, unstable
Ci-1040	Benzamide, 2-((2-chloro-4-iodophenyl)amino]-N-(cyclopropylmethoxy)3,4-difluoro- [CAS]	212631-79-3	<u> </u>	9837881	Anticancer, other	Cancer, general
cibenzoline	1HImidazole, 2-(2,2-diphenykydopropyl)-4,5-dihydro-[CAS] Pregna-1,4-diene-3,20-dione 16,17-	53267-01-9	8	1417174	Antiarrhythmic	Arrhythmia, general
cidesonide	((cyclohexymethylene)bis(oxy)}-11- hydroxy-21-(2-methyl-1-oxopropoxy) (118,16Apha) [CAS]	126544-47-6	出	4129535	Antiasthma	Asthma
cicletanine	Furo[3,4-c]pyridin-7-ol, 3-(4-chlorophenyl)- 82747-56-6 1,3-dihydro-6-methyl-, (4+)- [CAS] 89943-82-8 2 Budisocathondis and 3-3-5	82747-56-6 89943-82-8	ള	4383998	Antihypertensive, other	
ciclonicate	CAS	53449-58-4	평;	1910481	Vasodilator, peripheral	Cancer, lung, small cell
ciclosidomine		29342-05-0 66564-16-7	ള	3883545	Antifungal	Infection, fungal, general

API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
ciclosporin A	Cyclosporin A- [CAS]	59865-13-3			Formulation, optimized, microemulsion Transplant rejection, general	Transplant rejection, general
cdofovir Crfenline	Phosphonic acid, [[2-(4-amino-2-oxo-1(2H)-pyrimidinyl)-1-(Thydroxymethyl)ethoxyjmethyl]-, (S)- [CAS] 113852-37-2 [hydroxymethyl)ethoxyjmethyl]-, (S)- [CAS] 53267-01-(113622-37-2 53267-01-9	&	253412	Antiviral, other	Infection, cytomegalovirus
ciansetron	4H-Pyrido(3.2.1-jk)carbazol-11(8H)-one, 5,6,9,10-tetrahydro-10-[(2-methyl-1H- imidazol-1-yl)methylj-, (R)- [CAS]	120635-74-7 82009-34-5	<u>a</u>	297651	Gl inflammatory/bowel disorders	Irritable bowel syndrome
ciazapri	6H-Pyridazino[1,2-a][1,2]diazepine-1-carboxylic acid, 9-[[1-(ethoxycarbonyl)-3-phenytpropyljamino]octahydro-10-oxo-, [15-[1Apha,94lpha(R*)]]- [CAS]	88768-40-5 90139-06-3	89	2128984	Antihypertensive, renin system	Hypertension, general
cilengitide	Cyclo(L-arginylglycyt-L-Alpha-aspartyt-D- phenylalanyt-N-methyt-L-valyl) [CAS] 2 c-Darina-licathorolic acid 1 4-dillydro-	188968-51-6	<u>a</u>	770622	Anticanoar, other	Cancer, lung, non-small cell
cinidipine		102106-21-8 132203-70-4	a	161877	Antihypertensive, other	Hypertension, general
ciomilast	acid	153259-65-5	S	5602157	COPD treatment	Chronic obstructive pulmonary disease
ciostazol Cimetidine	2(1H)-Quinolinone, 6-[4-(1-cyclohexyl-1H-tetrazol-5-yl)butoxyj-3,4-dihydro-[CAS]	73963-72-1 51481-61-9	8	2033893	Antithrombotic	Peripheral vascular disease
cimetroplum	3-Oxa-9-azoniatricyclo(3.3.1.02.4)nonane, 9-(cyclopropytmethyl)-7-(3-hydroxy-1-oxo-2-phenypropoxy)-9-methyl-, [7(S)-(1.4pha,28,48,54pha,78)]-[CAS]	51598-60-8	sn	3853886	Antispasmodic	Muscle spasm, general
cinacalcet	1-napthalenemethanamine Alpha-methyl- N-[3-{3-{trifluoromethyl}phenyljpropyl] (AlphaR}-,	364782-34-3			Hormone	Hyperparathyroidism

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API Generic Name Cinchonidire Cinchonine Cinchophen Cinchoppen	API Chemical Name	CAS No. 485-71-2 118-10-5 132-60-5 23887-41-4	Refe	Reference	Example of Therapeutic Use	Example of Indication
Cinepazide cinepazide Cinitapride Cinmetacin Cinnamedrine	Piperazine, 1-{2-oxo-2-(1-pyrrolidinyl)ethyl}-4-{1-oxo-3-(3,4,5-trimethoxyphenyl}-2-propenyl}-, (Z)-2-butenedioate (1:1) [CAS]	23887-46-9 26328-04-1 66564-14-5 20168-99-4 90-86-8 298-57-7		1218591	Vasodilator, peripheral	Peripheral vascular disease
cinolazepam	1H-1,4-Benzodiazepine-1-propanenitrile, 7-chloro-5-(2-fluorophenyl)-2,3-dihydro-3-hydroxy-2-oxo-[CAS]	75696-02-5	3	2950235	Hypnotic/Sedative	Insomnia
cinoxacin Cinoxate Cinromide Cioteronel	[1,3]Dioxolo[4,5-g]cinnoline-3-carboxylic acid, 1-ethyl-1,4-dihydro-4-oxo-[CAS]	28657-80-9 104-28-9 58473-74-8 89672-11-7	8.	1296753	Quinolone antibacterial	Infection, uninary tract
cipamfylline	1H-Purine-2,6-dione, 8-amino-1,3- bis(cyclopropylmethyl)-3,7-dihydro-[CAS] 14-imidiano 44/18,28/245,5-dimethyl-	132210-43-6	a	389282	Antiprurtic/inflamm, allergic	Eczema, atopic
cipralisant		213027-19-1	ള .	6008240	Psychostimulant	Attention deficit disorder
ciprofibrate	dichlorocyclopropyl)phenoxyj-2-methyl- [CAS] 3-Quinolinecarboxylic acid, 1-cyclopropyl-6	52214-84-3	8	1385828	Hypolipaemic/Antiatherosclerosis	Hyperlipidaemia, general
ciprofloxacin	fluoro-1,4-dihydro-4-oxo-7-(1-piperazinyl)- [CAS]	85721-33-1	S	4670444	Quinolone antibacterial	Infection, general

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API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
	3-Quinolinecarboxylic acid, 1-cyclopropyl-6 fluoro-1,4-dihydro-4-oxo-7-(1-piperazinyl)-+ (6Apha, 118, 16Apha)-6,9-Difluoro-					
<u>.</u>	11,21-dinydroxy-15,17.4(1- methylethylidene)bis-(oxy)}-pregna-1,4- diene-3,20-dione			,		
ciprofloxacin+fluocinolone, SAL					Formulation, fixed-dose combinations	Otitis
Ciramadol		63269-31-8			•	
cisapride	Benzamide, 4-amino-5-chloro-N-[1-[3-(4-fluorophenoxy)propylj-3-methoxy-4-piperidirylj-2-methoxy-, cis- [CAS]	81098-60-4	<u> </u>	76530	Gastroprokinetic	
	Isoquinolinium, 2,2-(1,5- pentanediytbis(oxy(3-oxo-3,1-					
	propanedlyl)][bis[1-[(3,4-dimethoxyphenyl)methyl][-1,2,3,4-tetrahydro-6,7-dimethoxy-2-methyl-,1R-					
cisatracurium	[1Apha_2Apha(1'R*2'R*)]. [CAS] Platinum, diamminedichloro- (SP-4-2)-	96946-42-8	ജ	5453510	Muscle relaxant	Surgery adjunct
cisplatin	[CAS]	15663-27-1	ജ	4177263	Anticancer, alkylating	
· •	5-tsobenzofurancarbonitrile, 1-(3- (dimethylamino)propyl-1-(4-fluorophenyl)- 59729-32-7	59729-32-7				
citalopram	1,3-dihydro-[CAS]		8	1526331	Antidepressant	Depression, general
	Cytidine 5-(trihydrogen diphosphate), P-12 (trimethylammonio)ethyljester, hydroxide,				***	
citicoline	inner salt [CAS]	987-78-0	<u>م</u>	39006541	Cognition enhancer	Infarction, cerebral
Citiolone		1195-16-0				
Citric Acid		77-92-9 372-75-8				
					and phonon	
cizolitine	Ernanarine, n.m-dansuryr-z-((-merryr-) pyrazot-5-yl)phenyfmethoxyj-, 2-hydroxy-1,2,3-propanetricarboxylate [CAS]	142155-44-0			Urological	Incontinence
	4-(3-[4-(2-Methyl-imidazol-1-yl)- phenylsulfanyl]-phenyl)-tetrahydro-pyran-4-					
CJ-13610	carboxylic acid amide		-		COPD treatment	Chronic obstructive pulmonary disease

API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
CKD-602 dedribine Clanobutin	1H-Pyrano[3',4':6,7]indolizino[1,2-b]quinoline-3,14(4H,12H)-dione, 4-ethyl-4-hydroxy-11-{2-{(1-methylethyl)amino]ethyl}-, monohydroxhloride, (4S)- [CAS] Adenosine, 2-chloro-2'-deoxy- [CAS]	213819-48-8 4291-63-8 30544-61-7		9902530	Anticancer, other Anticancer, antimetabolite	Cancer, ovarian Cancer, leukaemia, hairy cell
darithromycin Clavulanate,	Erythromycin, 6-O-methyl- [CAS]	81103-11-9	П	41355	Macrolide antibiotic	Infection, respiratory tract, lower
Clavulanic Acid Clavulanic Acid Clebopride Clemastine Clemizole Clemizole Clentiazem		58001-44-8 55905-53-8 15686-51-8 442-52-4 37148-27-9 96125-53-0				
devidipine	3,5-Pyridinedicarboxylic acid, 4-(2,3-dichlorophenyl)-1,4-dillydro-2,6-dimethyl-methyl (1-oxobutoxy)methyl ester (±) [CAS] 2,4(1H,3H)-Pyrimidinedione, 1-(2-deoxy-2-fluoro-6-L-arabinofuranosyl-5-methyl-	167221-71-8	<u> </u>	9512578	Anthypertensive, other	Hypertension, general
clevudine Clidanac Clidinium Clinafloxacin Clindamycin	[CAS]	163252-36-6 28968-07-2 3485-62-9 105956-97-6 18323-44-9			Antiviral, other	Infection, hepatitis-B virus
clindamycin + tretinoin	L-threo-Alpha-D-galacto-Octopyranoside, methyl 7-chloro-6,7,8-trideoxy-6-[[(1- methyl-4-propyl-2- pyrrolidinyl)carbonyljamino]-1-thio-, (2S- trans)- + retinoic acid			·	Formulation, fixed-dose combinations	Acne

			L			
API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
	L-Threo-Alpha-D-galacto-octopyranoside, methyl 7-chloro-6,7,8-trideoxy-6-[[(1- methyl-4-propyl-2-			,	,	
clindamycin	pyrrolidinyl)carbonyljamino}-1-thio-, 2- (dihydrogen phosphate), (2S-trans)-	18323-44-9 24729-96-2			Formulation parenteral other	Infection, avnaecological
Clinofibrate Clinprost		30299-08-2 88931-51-5				
clobazam	1H-1,5-Benzodiazepine-2,4(3H,5H)-dione, 7-chloro-1-methvl-5-ohenvl-ICAS	22316-47-8	89	1214662	Anxiolytic	
Clobenfurol		3611-72-1				
Clobenoside		29899-95-4				
Clobenzorex		13364-32-4				
Clobenztropine		5627-46-3				
	Pregna-1,4-diena-3,20-diona, 21-chloro-9- fluoro-11,17-dihydraxy-16-methyt-,					
dobetasol	(118,168)- [CAS]	25122-41-2			Formulation, dermal, topical	Psoriasis
	Pregna-1,4-diene-3,11,20-trione, 21- chloro-9-fluoro-16-methyl-17-(1-	25122-57-0				
clobetasone		54063-32-0	8	1253831	Antipruritic/Inflamm, allergic	
Clobutinol		14860-49-2				
Clocapramine		47739-98-0				
Clocinizine		298-55-5 77175-51-0				
Clocortolone		4828-27-7				
	Phosphonic acid, (dichloromethylene)bis-				Osteoporosis treatment, Anticancer,	Pain, cancer, Hypercalcaemia
clodronate Clodronic Acid	[CAS]	22560-50-5 10506-22-3			hormonal	of malignancy
	2-chloro-9-(2-deoxy-2-fluoro-ß-D-) . } .				
clofarabine	מומחים און את בוווום			,	Anticancer, antimetabolite	Cancer, leukaemia, chronic lymphocytic
·						

API Generic Name API Ch 3-(p-chlo dihydro-2 cloffbrate Cloffbrate Cloffbrate Cloffbrate Cloffbrathan Cloffucarban	2,10-	CAS No.	Reference		Example of Thorspoortie ilea	Example of Indication
75	proanilo)-10-(p-chlorophenyi)-2,10-	•	_			
Clofenamide Clofibrate Clofibric Acid Cloffucarban Clofoctol	dinydro-z-(stopropyimino)-prienazine	2030-63-9	***************************************		Formulation, optimized, microencapsulate	Infection, tuberculosis
Cloffbric Acid Cloffucarban Clofoctol		671-95-4			,	
Clofoctol		882-09-7				
		37693-01-9				
Clomacran		5310-55-4				
Clomestrone		4091-75-2				
Clomethiazole		533-45-9				
Clometocillin		1926-49-4				
Clomiprene Clomipramine Clomocycline		303-49-1 1181-54-0				
2H-1,4-B	2H-1,4-Benzodiazepin-2-one, 5-(2-chlorophery)-1,3-dihydro-7-nitro- [CAS]	1622-61-3	<u>4</u>	4316897	Antieoileotic	Epilepsy, general
					Formulation transdermal patch	Hypertension general
zene						
Clonitrate		2612-33-1 17737-65-4				•
Clopamide		636-54-4				•
Cloperatine		3703-76-2				
	Thieno(3,2-cjpyridine-5(4H)-acetic acid,	120202-48-4				
se fyritem dopidogrel		8	<u>왕</u>	99802	Antithrombotic	Infarction, myocardial
Clopirac		42779-82-8				
Cloprednoi	2. Proper 1-12 E-dictionshenows-3-	5251-34-3 39561-28-8				
cloranolol ((1,1-dim			SU A	4310549	Antihypertensive, adrenergic	

API Generic Name Clorazepic Acid Clorexolone	API Chemical Name	CAS No. 23887-31-2 2127-1-7	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
doricromene Clorindione Clorienaline Cloriemine	Acetic acid, [I8-chloro-3-[2- (diethylamino)ethyl]-4-methyk-2-oxo-2H-1- benzopyran-7-yljoxyj-, ethyl estar [CAS]	68206-94-0 1146-99-2 3811-25-4 10389-73-8	<u>s</u>	4349566	Vasodilator, coronary	Peripheral vascular disease
Clostebol		1093-58-9 2058-52-8				
	eno[2,3-e]-1,4-diazepin-2-one, 5-(2- phenyl)-7-ethyl-1,3-dihydro-1-methyl		9			
Gouazepam	[CAS] 14(2-thomohenvildinhenvimethvll-1H-	404-1705	3	254 254 254 254 254 254 254 254 254 254	Anxietytic	Anxety, general
dotrimazole	imidazole	23593-75-1	8	3705172	Antifungal	
dotrimazole + betamethasone	Pregna-1,4-diene-3,20-dione, 9-fluoro-11-hydroxy-16-methyl-17,21-bis(1-oxopropoxy)-, (110,16ß)-, mixt with 1-[(2-chlorophenyl)diphenytmethylj-1H-imidazole [CAS]	92522-91-3			Formulation, fixed-dose combinations	Infection, fungal, general
Cloxacillin	Overely's 2-484 Albertodissenin E/EU).	61-72-3				
doxazolam Cloxotestosterone Cloxomin		24166-13-0 53608-96-1 130-16-5	^	3772371	Anxiotytic	
dozapine	ire, 8-chloro- [CAS]	5786-21-0	ജ	3539573	Neuroleptic	Schizophrenia
CMI-392	I rare-2-13-methoxy-5-(V-methyl-N'-chlorophenyfthio)ethoxy-5-(N'-methyl-N'-hydroxyureidyl)methylphenyft-5-(3,4,5-trimethoxyphenyf)betrahydrofuran	193739-23-0	SD	5648486	Antipsoriasis	Psoriasis

A Discourage Name	ADI Chemical Name	CAS No	Patent Refere	900	Example of Therapeutic Use	Example of Indication
	2-Naphthacenecarboxamide,					•
	3,10,12,12a-tetrahydroxy-1,11-dioxo-,		9		· · · · · · · · · · · · · · · · · · ·	Cancer carroma Kannelle
CMT-3	(4aS,5aR,12aS)-[CAS]	12800-30-/		060/000	Allecation, outer	Carles, salesina, reposit
	Decanediamide, N.N'-bis[3,5-bis[1- [(aminoiminomethy])hydrazonolethy[phen					
CNF-1493	yf., tetrahydrochloride [CAS]	164301-51-3	2	5750573	Anti-inflammatory	Psoriasis
·	N-{2-chloro-5-(methyfthio)phenyi]-N-					
	methyl-N-[3-(methylthio)phenyliguanidine	160764 76 7	Ş	0477504	Analysis office	Pain naumoathic
CNS-5161	[8 8]	•	}		Alargest, one	Tail, Icolopacie
Cobamamide		13870-90-1				
Cocaethylene	•	529-38-4				
Cocaine		50-36-2		•		
Codeine		76-57-3				
		52-28-8				
	5,10 methylene - tetrahydrofolate					
CoFactor					Anticancer, antimetabolite	Cancer, colorectal
Colchicine		64-86-8				
	1. Havanaminium N. N. trimethyl-6-(2.					
	propenylamino)-, polymer with					
	(chloromethyl)oxirane, 2-propen-1-amine					
	and N-2-propenyl-1-decanamine,	1				
colesevelam	hydrochloride [CAS]	182815-44-7	3	5607669	Hypolipaemic/Antatheroscerosis	нурепривета, денега
and the second	1H-Imidazole, 2-methyl-, polymer with		2			1. the control of the
colestilan	(chloromethyl)oxrane [CAS]	822242-0	<u> </u>	12455186	nypoupaemic/Anuameiosceiosis	חיוים
Colestipol		26658-42-4				
•	6-(3-dimethylaminopropionyl)forskolin-					•
cotforsin daropate	[cAs]	138605-00-2	<u>B</u>	222413	Cardiostimulant	Heart tailure
	3,5,9-Trioxa-4-phosphapentacosan-1-				•	
	aminium, 4-hydroxy-N,N,N-trimethyl-10-	1				
:	oxp-7-[(1-oxohexadecyl)oxy]-, hydroxide,	63-89-8	٥	100000		Respiratory distress syndrome,
colfosceni	mner sait, 4-oxide, (n/- [CAS]	331.32-43-1	3	170070	Lung Sunaciant	ווויייייייייייייייייייייייייייייייייייי
Collagraft		138331-02-9			Formulation, implant	Regeneration, bone
Colocynthin		1398-78-3				
Colpormon		1247-71-8				

			Patent			Evamele of Indication
API Generic Name	API CNEMICAI NAME 1-Pymolidineacetamide, 2-oxo-N-(5,6,7,8-	CAS NO.			Example of therapedus coe	
coluracetam	4-yl)- [CAS] disodium combretastatin-A-4-3-0-	135463-81-9		427636	Cognition enhancer	Alzheimer's disease
	phosphate				:	
combretastatin A-4 prodrug	,					Cancer, tryroid
compound B, Pharmacor			<u>မ</u> ဗ	6362165	Antiviral, anti-HIV	Infection, HIV/AIDS
	[1,1'-Biphenyl]-2-carboxamide, N-[4,[4,5-dihydro-2-methylimidazo[4,5-di]1-benzazeoin-6(1H)-vi)carbonyliphenyl]-					
conivaptin	[CAS]	168626-94-6	8	WO 9503305	Gl inflammatory/bowel disorders	Hyponatraemia
Connettivina	Hyaluronic acid [CAS]	9004-61-9			Vulnerary	
Convallatoxin		508-75-8				
Coparaffinate	-	8001-60-3				-
Corticorelin Ovine						
Triflutate		1				
Corticosterone		50-22-6				
Cortisone		53.06-5				
Cortivazol		1110-40-3				
Cosyntropin		16960-16-0				
Cotamine		82-54-2				
Cotinine		486-56-6				
	Benzenesulfonamide, 4-amino-N-2-	,				
	trimethoxyphenyl/methyl-2,4-					
co-trimazine	pyrimidinediamine [CAS]	39474-58-3			Trimethoprim and analogues	Infection, urinary tract
Coumetarol		4366-18-1				•
	1H-Indene-3-acatamide, 5-fluoro-2-methyl- N-(phenylmethyl)-1-[(3,4,5-					
248	trimethoxyphenyl)methylene}-, (1Z)-	200803-37-8	S	9747303	Anticancer other	Barrett's oesoohagus
CP-461				5948779	Anticancer, other	Cancer, prostate
77	Action of Alphon coding to the Charles	101EE EE 1				Since of the since
CFC-211		ų				Demonstration AIDS and and
CPF1189	CA 1189 [CAS]	C-/Q-C/M17			Cognition enhancer	Dementia, Alus-related
CRA-0450			2	U2U2549	Anxionytic	Unspecilied

			Patent	į.		-
API Generic Name		CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
creatinol-O-phosphate		6903-79-3			Antianginal	
	Oxirane, methyl-, polymer with oxirane,					:
CRL-5861	biock [CAS]	106392-12-5	S	4837014	Antisickling	Anaemia, sickle cell
	(28 66) 2 (2(6) Bonndowmen 8 11 11					
	trimethyl-123456-hexahydm-26-					
	methano-3-benzazocin-10-ol					
crobenetine			Š	9914199	Neuroprotective	Ischaemia, cerebral
	1H-Imidazole, 1-{1-{2-{(3-					
	chlorophenyl)methoxylphenyljethenylj-					
croconazole	[CAS]	77175-51-0	씸	3021467	Antifungal	Infection, fungal, general
	4H-1-Benzopyran-2-carboxylic acid, 5,5'-	•			,	
	[(2-hydroxy-1,3-propanediyl)bis(oxy)]bs4-					
cromoglicic acid	oxo-[CAS]	53736-52-0			Formulation, mucosal, topical	Conjunctivitis
	4H-1-Benzopyran-2-carboxylic acid, 5,5'-	٠	-			
	[(2-hydroxy-1,3-propanediyl)bis(oxy)]bis[4- 15826-37-6	15826-37-6	•			
aomolyn	oxo-, [CAS]	16110-51-3			Formulation, inhalable, solution	Asthma
Cropropamide		633-47-6				
Crotamiton		483-63-6				
		6168.76.0				
		P-07-00-0				
Crystacide		•	3	4557935	Formulation, dermal, topical	Infection, dermatological
CS-502			品	799823	Analgesic, other	Pain, general
	4-[(1E,3E)-4-[trans-5-[[1R,2R)-2-(2,4-difluorophenyl)-2-hydroxy-1-methyl-3-(1H-12,4-triszol-1-y)procylthiol-1,3-dioxan-2-					
	yl-1,3-butadienyl-3-fluorobenzonitrile					
CS-758				-	Antifungal	Infection, fungal, general
	1-42shickol3 2 (Peot-2-ere-2-carboxdic					
	acid, 6-[(1R)-1-hydroxyethyl]-4-methyl-7-					
	oxo-3-[[(3R)-5-oxo-3-pyrrolidiny[]thio]-, (2,2)	-4				
768 30	dimethyl-1-oxopropoxy)methyl ester,	157542.40.0	g	600642	Other lands and the state of th	interest and an interest
******	[mm] (m'm')	2-24-74-7101		232212	Deta-lactain antibiotic	medion, general

API Generic Name	API Chemical Name	CAS No.	Patent Reference	Example of Therapeutic Use	Example of Indication
CT-052923	[(2H-benzo[d]1,3-dioxalan-5- methyl)amino][4-(6,7-dimethoxyquinazolin- 4-yl)piperazinyl]methane-1-thione			Cardiovascular	Restenosis
CT-32228 Cupric Citrate	N-{4-bromophenyl}-6-{5-chloro-2- methylphenyl}-[1,3,5]triazine-2,4-diamine	866-82-0 13007-93-7		Anticancer, other	Cancer, general
CVT-2584	Ethanol, 2,2'-[[6-i](4-methoxyphenyl)methyljamino]-9-(1-methylethyl)-9H-purin-2-yljmino]bis-[CAS] ((S)-6-amino-5-(6-hydroxy-2,5,7,8-tetramethylchroman-2-carboxamido)-3-methyl-1-phenyt-2,4-(1H,3H)-	199986-75-9	WO 9805335	Cardiovascular	Restanosis
CX-659S Cyacetacide Cyamemazine	pyrmucinedione	140-87-4 3546-03-0	:	Dematological	Eczema, general
CYC400		3485-14-1	WO 00172745	Articancer, other	Cancer, general
Cyclardelate Cyclazocine Cyclexanone		456-59-7 3572-80-3 15301-52-7			
Cyclexedrine cycldrol cyclic inhibitors Cyclizine Cyclobarbital Cyclobandazole	3-Cyclohexene-1-methanol, 5-hydroxy-Apha-Apha, 4-trimethyl- [CAS]	ဗု	ŪS 6033843	COPD treatment, Respiratory Anticancer, hormonal	Bronchitis, chronic Cancer, breast

			Datent			
AP! Generic Name	API Chemical Name	CAS No.	Reference		Example of Therapeutic Use	Example of Indication
	1-Procensmine 3-(5H-					
	dibenzola dicycloheoten-5-vlidene)-N.N-					
Cyclobeozanine	dimethylCASI	303-53-7		<u>u</u>	Formulation, modified-release, other	Muscle spasm, general
	_	512 16 2			•	
Cyclobutyrol		200	•			
Cyclocumarol		218-20-/	_	-•		
Cyclodrine		52109-93-0				
Cyclofenil	: :	2624-43-3	!			
Cyclodisnii		516-21-2				
Colomothycoling		130.62.8	•	•		
Cyclomeniycania		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	- 			
Cyclonium lodide		65//-41-8				
Cyclopentamine		102-45-4				
Cyclopenthizzide		742-20-1			•	•
Cyclopentobarbital		9-89-92				
Cvclopentolate		512-15-2	·			
	N. Ric/2-chlomethyltetrahydro-2H-132-	!	· ·	•		
	ovasanhoenhoenhoen 2. amina. 2. avida					-
	monophydrata	50-12-0				
chimodeoch and a		5055-10-2		ù	Formulation pagenteral tameted	Cancer denoted
Condensation of the second		7.01.000	→		Allington, parentela, targette	מיוסוים מיוסוים
	2(1H)-Pyridinone, 6-cyclohexyl-1-hydroxy-					
•	לייום אותו בישוואוסמושוטים וייו	000		<u> </u>	the state of the s	
cyclopiroxalamine	3	41621-49-2		<u>Ľ</u> _	Formulation, transdermal, other	Vaginins
Cycloserine		68-41-7				,
Cyclothiazide		2259-96-3				,
Cyclovalone		579-23-7	•			
Cymarin		508-77-0				•
						•
	Carbamic acid, [4-(1-methylethyl)phenylj.					
						•
cymserine	[CAS]	145209-39-8	WO 9902154		Cognition enhancer	Atheimer's disease
Cynarin(e)		30964-13-7				
CYP26 inhibitors			US 6063606		Dermatological	Unspecified
Cyproheptadine		129-03-3	<u> </u>	_		
	(18,28)-6-Chloro-1,2-dihydro-17-hydroxy-		:	<u>.</u>		!
						Chemotherapy-induced injury,
cyproterone	3,20-digne [CAS]	7030-06-7		Ž	Kadio/chemoprotective	general

			Datont			
API Generic Name	API Chemical Name	CAS No.	Reference	920	Example of Therapeutic Use	Example of Indication
Cysteamine		60-23-1		1		ļ
	[[4-[[3-[[4-[1-(4-hydroxyphenyl]-1-methylethy]]phenoxy]methyljphenyljmethoxy]-phenylliminomethyll-, ethyl ester					
					Cystic fibrosis treatment	Cystic fibrosis
	2(1H)-Pyramidinone, 4-amino-1-[5-O- [hydroxy(octadecyloxy)phosphinyl]-6-D-					
cytarabine	arabinofuranosyll-, [CAS]	147-94-4	EP 23	239015	Anticancer, antimetabolite	Myelodysplastic syndrome
	N-(Pyridin-4-yl)-(1-(4-chlorobenzyl)-indol-3- yl)-glyoxyl-amide)		· ·	**		
D-24851					Anticancer, other	Cancer, general
0,77	8-Methoxyquinoline-5-[N-(2,5- dichloropyridin-3-yl)]carboxamide		<u> </u>	 i		
0.44.0					Antasuma	Asmma
9703	Benzeneacetamide, 4-(2-aminoethoxy)-N-(3-(3,4-dimethytphenyl)propyl)-3-methoxy-	0 10 1301.1				
UA-9018		272-100+7-		2242944	Anaigesic, other	Pain, musculoskeletal
DA-6034	:	1			GI inflammatory/bowel disorders	Crohn's disease
DA-7867				ង	Antibacterial, other	Infection, general
DA-7911		· !	₹	56034	Antiarthritic, other	Arthritis, rheumatoid
7	3-(1-Methyl-7-oxo-3-propyl-6,7-dihydro-1H- pyrazolo-[4,3-dipyrimidin-5-y)-N-[2-(1- methylpyrrolidin-2-y)ethyl]-4- propoxybenzenesulfonamide		9	210526	Major course described	Sexual dysfunction, male,
Selection of the select					mare sexual oysiunction	general
Dacitzumab		152923-56-3	·			
Dactinomycin		50-76-0	i .			•
	5,31-Dichloro-38-de(methoxycarbonyl)-7-demethyl-19-deoxy-56-O-{2-deoxy-2-(10-methylundecanamido)-B-D-glucopyranurosyl[-38-[N-{3-(dimethylamino)propyl[carbamoyl]-42-O-Alpha-D-mannopyranosyl-N15-					; !
dalbavancin	methylristomycin A aglycone	171500-79-1			Peptide antibiotic	Infection, dermatological

			6			
			Fatent	16		;
API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
Dalfopristin		112362-50-2				
	Virginiamycin M1, 26-((2-					
	(diethylamino)ethyl)sulfonyl)-26,27-dihydro-					
-	, (26R,27S)-, mixt with 4-(4-					
	(dimethylamino)-N-methyl-L-					
	phenylalanine)-5-(5-((1-					
	azabicyclo(2.2.2)oct-3-yithio)methyl)-4-oxo-					
	L-2-piperidinecarboxylic acid)					Infection, respiratory tract,
dalfopristin + quinupristin	virginiamycin S1- [CAS]	126602-89-9	G _i	248703	Antibiotic, other	general
datteparin	•	9041-08-1	ജ	4303651	Anticoagulant	Thromboprophylaxis
Daltroban		79094-20-5	•			
S. Aminolevillinic Acid		106-60-5				
himenede	: : 1		ũ	REGUR	Antimonifont	Thrombosis venous
	Proma 24 dian 20 andi? 2 discovazol 17		<u> </u>	}		
-	TOWERS, THE PARTY OF THE CONTROL OF THE PARTY OF THE PART	1 00 00 1		,,,,,,		
danazol	G' (1/Apria) (As)	C-99-197/	<u>n</u>	902844	Menstruation disorders	
Danthron		117-10-2				
Dantrolene		7261-97-4			•	
	1.2.4-Triazolof4.3-allowidine, 5.6.7.8-					
	2-methylphenyl)-1-	72822-12-9				
dapiprazole	CASI		3	4252721	Ophthatmological	Glaucoma
: : : : : : : : : : : : : : : : : : : :	4-114-(2.4.6-	:				
	trimethylphenyl)aminolpyrimidin-2-					
	y]amino]benzonitrile					
dapivirine		244767-67-7			Antiviral, anti-HIV	Infection, HIV/AIDS
	(+)-(S)-N, N-dimethyl-Alpha-[2-(1-naphthyl-					
dapoxetine		119356-77-3	8	288188	Male sexual dysfunction	Premature ejaculation
	4,4"-Suffonyldianiline					
dapsone	•	90-08-0			Formulation, dermal, topical	Acne ·
daptomycin	Daptomycin [CAS]	103060-53-3	8	178152	Peptide antibiotic	Infection, dermatological
Darbepoetin Alfa			 L			!
	3-Pyrrolidineacetamide, 1-{2-(2,3-dihydro-	:	:			
	-Alpha, Alpha-					
darifenacin	diphenyt, (S)- [CAS]	133099-04-4	8	388054	Urological	Overactive bladder

Table IV

ABI Charles			Patent			Evample of Indication
Ari Generic Name			LAIGE		Evalupie or Therapeure ose	Evalliple of markacion
	<u>ප</u> ු					
	amino-2,3,6-trideoxy-Alpha-L-lyxo-					
	hexopyranosyl)oxyl-7,8,9,10-tetrahydro-					
	6,8,11-trihydroxy-1-methoxy-, (8S-cis)-					
daunorubicin	[CAS]	20830-81-3	US 5	5441745	Formulation, optimized, liposomes	Cancer, sarcoma, Kaposi's
	3-diallyl-8-cyclohexytxanthine	:				
DAX SciClone				_=	Cystic fibrosis treatment	Cystic fibrosis
	7 tort D. childimoth della 10.	•				
	hydroxeomytethesin					
,		•			Andcancer, omer	Cancer, general
d-Camphocarboxylic		18530-30-8				
Acid						
DCF-987	Dextran		ns e	5514665	Formulation other	Cystic fibrosis
					-	
Too		50-29-3				
Deaminooxytocin		113-78-0		•		
Deanol		108-01-0				•
		4434 64 0	-	•		
Depusodnin	:	1131-04-2				
Decamethonium	•	541-22-0				
Decimemide		14817-09-5				
	1,3,5-Triazin-2(1H)-one, 4-amino-1-(2-	23339-46-0				
decitabine	deoxy-G-D-erythro-pentofuranosyl)-[CAS]	2353-33-5			Anticancer, antimetabolite	Myelodysplastic syndrome
	Benzamide, 4-amino-3-chloro-N-(2-		:			1
declopramide	(diethylamino)ethyl)- [CAS]	891-60-1	80	9732582	Anticancer, other	Cancer, colorectal
Deferiprone	•	30652-11-0	 			
Deferoxamine	** ***	70-51-9				
	SH. Prenna-1 4-dieno(17 16-dloxazole	»! 				
	3 20-dione 21-(acetyloxy)-11-hydroxy-2-	14484.47.0				•
deflazacort	methyl-, (118,168)- [CAS]		<u>2</u>	1077393	Hormone	Asthma
Defrefamide		1	- !			
Dalcalaning			1			

API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
	N-acetyl-3-(naphtalen-2-yl)-D-alanyl-4-chloro-D-phenylalanyl-3-(pyridin-3-yl)-D-alanyl-L-seryl-4-[[(4S)-2,6-dioxohexahydropyrimidin-4-yl]carbonyljamiro]-L-phenylalanyl-4-(carbamoylamiro)-D-phenylalanyl-L-leucyl-(carbamoylamiro)-D-phenylalanyl-L-leucyl-		1	·		
degarelix	N6-(1-methylethyl)-L-lysyl-L-prolyl-D- alaninamide L-fhreo-2,3-Hexodiulosonic acid gamma-	214766-78-8			Anticancer, hormonal	Cancer, prostate
dehydroasombic acid Dehydrocholic Acid		490-83-5 81-23-2 4914-30-1	. !		Cognition enhancer	Alzheimer's disease
delapri	Glycine, N-(2,3-ditydro-1H-inden-2-yi)-N- [N-(1-(ethoxycarbonyi)-3-phenyipropyi]-L- alanyi]-, (S)- [CAS]	83435-66-9 83435-67-0	a	51391	Anthypertensive, renin system	Hypertansion, general
delaprii •manidipine	Gycine, N-(2,3-dihydro-1H-inden-2-yl)-N-[N+[1-(ethoxycarbonyl)-3-phenybropyll-L-alayfl, (S)-3,5-Pyridinedicarboxylic acid, 1,4-dihydro-2,6-dimethyl-1-piperazinyl]ethyl methyl ester [CAS]		Œ	2733911	Formulation, fixed-dose combinations	Hypertension, general
delavirdine Delmadinone Delmopinoi	Piperazine, 1-{3-{(1-methylethyl)amino}-2-pyridinyl}-4-{[5-{(methylsulfonyl)amino}-1H-indol-2-yl)carbonyl}- [CAS]	136817-59-9 13698-49-2 79874-76-3	ОМ	9109849	Antviral, anti-HIV	Infection, HIV/AIDS
delorazepam delucemine Demanyl Demecarlum	2H-1,4-benzodiazepin-2-one, 1-chloro-5- (2-chlorophenyl)-1,3-dihydro- [CAS] 3,3-Bis-(in-fluorophenyl)-N- methybropyłamine [CAS]	2894-67-9 186495-99-8 6909-62-2 56-94-0	₹ ;	408029	Anxiolytic Neuroprotective	Ischaemia, cerebral

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API Generic Name	API Chemical Name	CAS No.	Refer	Reference	Example of Therapeutic Use	Example of Indication
: :	2-Naphthacenecarboxamide, 7-chloro-4- (dimethylamino)-1,4,4a,5,5a,6,11,12a-	!				
	1,11-dioxo-, [4S- 4,11-dioxo-, [4S- 4Abha-4aAbha-5aAbha-6ß.12aAlbha)}-					
demedocycline	[SAS]	127-33-3			Formulation, modified-release, <=24hr Infection, general	Infection, general
Demecolcine		477-30-5	. '			
Demegestone		10116-22-0				
Demexiptiline		24701-51-7				
	Benzeneacetic acid, Alpha-(2-ethylbutoxy)-					
deimies de la contraction de l	Apra-prenty-, z-(daneunylamino)eunyl octor (CAS)	3321-06-0	<u>'</u> ع	4133785	Analoesic NSAID	Pain, musculoskeletal
Configuration Difficult		173146-27-5				
Denonamine		71771-90-9	: :	:		:
Danonfarin	! ! : . ! : : : : : : : : : : : : : : :	22006-84-4	•			
Deoxycholic Acid		83-44-3	:			
Deoxycorticosterone	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	64-85-7	·-			
		56-47-3				
Deoxydihydrostreptomy		26086-49-7	!	•		
ch		: : ار			•	
Deoxyepinephrine		501-15-5	•			
Depreotide		161982-62-3				
	L-Vaine, N-((3S,4E)-3-hydroxy-7- mercapto-1-oxo-4-heptenyll-D-valyt-D- oxteinyl-(2Z)-2-amino-2-butenoy (4-1)-					
depsipeptide	lactone, cyclic (1-2)-disulfide [CAS]	128517-07-7	8	352646	Anticancer, antibiotic	Cancer, general
Deptroplne		604-51-3	— —		1	
Dequalinium		522-51-0				
	Benzoic acid, 2-hydroxy-5-[[4-[3-[4-(2-methyl-1H-imidazo[4,5-c]pyridin-1-ndmethyl-1-niparidinal, 2-nox-1-phonel-1-	188012.67.7				
dersalazine	propenyliphenyliazol (Z) [CAS]		Sn	5747477	Anti-inflammatory	Colitis, ulcerative
Deserpidine		131-01-1				
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API Generic Name	API Chemical Name	CAS No.	ratent Refere	ratent Reference	Example of Therapeutic Use	Example of Indication
	5-114-115		— і			
	(acetylhydroxyamino)pentyljamino}-1,4-					
	dioxobut/flhydroxyaminolpentyll-N-(5-					
desferrioxamine	aminopentyl)-N-hydroxy- [CAS]	70-51-9	•		Antidote	Poisoning, metal
Desflurane		57041-67-5	•			
Desioramine		50-47-5				
Deslanoside		17598-65-1				
	5H-Benzo(5,6)cyclohepta(1,2-b)pyridine, 8	· · · · · · · · · · · · · · · · · · ·		_		
	chloro-6,11-dihydro-11-(4-piperidinylidene)					
desloratadine	[CAS]	100643-71-8	<u>s</u>	5595997	Antiallergic, non-asthma	Rhinitis, allergic, perennial
	Luteinizing hormone-releasing factor (pig),					
	6-D-tryptophan-9-(N-ethyl-L-prolinamide)-					
deslorelin	10-deglycinamide-[CAS]	57773-65-6	8, 1	4034082	Releasing hormones	Cancer, prostate
i i	Vasopressin, 1-(3-mercaptopropanoic					
desmopressin	acid)-8-D-arginine- (CAS)	16679-58-6	<u>円</u> . 범	2948345	Hormone	Enuresis
Desogestrel		54024-22-5				
	Estra-1,3,5(10)-triene-3,17-diol (170)					
	mbt. with (17Alpha)-13-ethyl-11-				<u>.</u>	
	methylene-18,19-dinorpregn-4-en-20-yn-					
desogestrel + estradiol	17-d [CAS]	122364-17-4	!		Menopausal disorders	Hormone replacement therapy
	18,19-Dinopregn-4-en-20-yn-17-ol, 13-				•	
desogestrel, Akzo Nobel	ethyl-11-methylene-, (17Alpha)- [CAS]	54024-55-5			Formulation, oral, other	Contraceptive, female
	18,19-Dinorpregn-4-en-20-yn-17-ol, 13-		•		•	
desogestrel+ethinylestrad (1)	ethyl-11-methylene-, (17Alpha)- [CAS]		S	3927046	Formulation, oral, other	Contraceptive, female
Desomorphine		427-00-9				
Desonide		638-94-8				•
Desoximetasone		382-67-2				
Detaxtran	: : : : : : : : : : : : : : : : : : : :	9015-73-0				
Devacade	:	 	8	9308176	Analgesic, other	Pain, general
	Pregna-1,4-diene-3,20-dione,9-fluoro-	50-02-2	- 			
	11,17,21-trihydroxy-16-methyl-,	2392-39-4				
dexamethasone	(118,16Apha)- [CAS]	312-93-6	i	:	Formulation, other	Inflammation, ocular
•	•					
	GH-Dibenzolb, dipyran-9-methanol, 3-(1,1-dimethylhebixl)-6a.7,10,10a-tetrahydro-1-					
dexanabinol		112924-45-5	유 - 4	427518	Neuroprotective	Head trauma

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API Generic Name		CAS No.	200	Reference	Example of Therapeutic Use	Example of Indication
	လု					
	phenylpropylj-, phenylmethyl ester, (R)-					
dexecadotril	[CAS]	112573-72-5	<u>B</u>	318377	Alimentary/Metabolic, other	Unspectfed
	1H-Imidazole, 2-(2-ethyl-2,3-dihydro-2-	89197-00-2				
dexefaroxan	benzofuranyl)-4,5-dihydro- [CAS]	89197-32-0	읎	71368	Cognition enhancer	Alzheimer's disease
Dayatimida		21888-98-2				
	Bentanoposite and Alpha-methyl 4/2.		+	•	•	
	methydrondy (AbhaS). [CAS]	51148-58.6			Analysesic NSAID	Pain general
Oexidupioien	internitation (white of the control					
	Benzeneacetic acid, 3-benzoyi-Alpha-					
dexketoprofen	methyl-, (S)- [CAS]	22161-81-5			Anti-inflammatory	Inflammation, general
	Pentanoic acid, 4-[(3,4-		.			
	dichlorobenzoyf)amino}-5-[(3-					
	methoxypropyl)pentylamino]-5-oxo-, (R)-					
dextoxiglumide		119817-90-2	<u>B</u>	0344184	Gl inflammatory/bowel disorders	Irritable bowel syndrome
	1H-Imidazole, 4-[1-(2,3-	113775-47-6	! :	· :		
dexmedetomidine	dimethylphenyl)ethyll-, (R)- [CAS]	86347-15-1	<u>@</u>	187471	Hypnotic/Sedative	Anaesthesia
:	2. Pineridineacetic acid. Alpha-phenyl-	;				
	methyl ester (AlphaR 2R)-					
devinethytheridate		19282-68-1			Develocitimilant	Attention deficit disorder
Control of the second	:		:			
Dexpanthenol	i	61-13-0				
	1-methyf-1,2-		į			Chemotherapy-induced injury,
deurazoxane	ethanediyl)bis-, (S)- [CAS]	24584-09-6	岜	1910283	Radio/chemoprotective	general
Dextran-1	Dextran [CAS]	9004-54-0	 		Plasma substitute	
Dayteanomar		56087-11-7	<u> </u>	:		
DOVIGENCINA		0 70 73	i T	; +		
Dextroamphetamine		31-04-R	:	-		
	Morphinan, 3-methoxy-17-methyl-,	6700-34-1	•		:	:
dextromethorphan	(9Apna, 13Apna, 14Apna)-,	125-71-3	3,	4221788	Formulation, oral, other	Cough, Emotional lability
Dextromoramide		357-56-2				
	Benzeneemanov, Apha-12-(damemyamino)					
anatanamantah	(ecter) [S-(R* S*)]. [CAS]	460.62.5			Formulation modified raleases other	Pain general
dexa opropostypirene	٠		÷		one de la company de la compan	
Dezocine		23048-22-8	- !			1
	N-Tropyl 7-azaindol-3-yicarboxamide	70000				
DF-1012		102220-05-3	کا ا	3504/42	Respiratory	Respiratory disease, general
	di-D-fructofuranose 2,6':6,2' dianhydride					
DFA-IV			S	5700832	Antianaemic	Anaemia, aplastic

			Patent				
API Generic Name	API Chemical Name	CAS No.	Reference	ence	Example of Therapeutic Use	Example of Indication	
d-Fenchone		4695-62-9	:				_
p-Glucuronolactone		32449-92-6		•			
:	Diab II	0 10 01000				Nichology Time II	
Diab II		2-cp-9cs505	2	6153632	Antidiabetic	Diabetes, Type II	
	2-Anthracenecarboxylic acid, 4,5- bis/acendoxyl-9 10-dihydro-9 10-dioxo-						
diacerein		13739-02-1	US 4	4244968	Antiarthritic, other	Arthritis, rheumatoid	
Diampromide		552-25-0	-				
Diamthazole	•	136-96-9					
Diathymosulfone		5964-62-5					
Diatrizoate		737-31-5					
	2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3-						
diazepam	dihydro-1-methyl-5-phenyl- [CAS]	439-14-5	⊣		Formulation, transmucosal, systemic	Anxiety, epilepsy, general	
Diaziquone		57998-68-2	-			•	
Diazoxide		364-98-7					
	D-Streotamine, O-3-amino-3-deoxy-Alpha-		i-			•	
	Delinconvrance of 1-81-0-12 6-diamino-						-
	2 3 4 & totradoom Abha-Dandhm						
	havonanceul/14/12-deone suffate	34492-08-8					
rive to the	(selliCAS)	58580-55-5	<u>2</u>	13493/12	Aminonthroeide antibiotic	Infection deperal	
						more, across	
Dibenzepin		4498-32-2					
Dibromopropamidine		496-00-4					
Dibucaine		61-12-1					
Dichloralphenazone		480-30-8					
Dichloramine T		473-34-7					
Dichloricono		7008-26-F					
Dichlombanzyl Alcohol		1777-82-8	. <u>-</u>			•	
Dichlorophen		97-23-4				•	_
Dichlorophenarsine		536-29-8	1		•		
Dichlorphenamide		120-97-8				: : : : : :	
	Hyaluronic acid + benzeneacetic acid, 2-		:		•		
dictofenac + HA	[(2,6-dichlorophenyl)amino}- [CAS]		1		Formulation, transdermal, systemic	Keratosis	
	3020 Fire State Control of the Contro	15307-79-6 15307-86-5				•	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	dichlomohenylaminol [CAS]	15307-86-3			Cormulation anadifical colonial and 145	- aid	
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API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
		3116-76-5				
Dicumarol		66-76-2				
Dicyclomine		77-19-0				
didanosine	Inosine, 2',3'-dideoxy- [CAS]	69655-05-6	2	4861759	Antiviral, anti-HIV	Infection, HIV/AIDS
Dideoxyadenosine		4097-22-7				
didox	Benzamide, N,3,4-trihydroxy- [CAS]	69839-83-4	S	4263322	Anticancer, antimetabolite	Cancer, general
Dienestrol		84-17-3				
	19-Norpregna-4,9-diene-21-nitrile, 17-					
dienogest	hydroxy-3-oxo-, (17Apha)- [CAS]	65928-58-7	8	1524917	Menstruation disorders	Endometriosis
	19-Norpregna-4,9-diene-21-nitrile, 17-					
	hydroxy-3-oxo-,(17Alpha) + Estra- 1 3 5/10 triena_3 17-dio(17R)					
dienooest+estradiol					Formulation fixed-dose combinations	Contraceotive, female
		700 EA E				
Diemadione		0-10-701	_			
Diethazine		60-91-3				
Diethylbromoacetamide		511-70-6				
Diethylcarbamazine		90-89-1		•		
	1-Propanone, 2-(diethylamino)-1-phenyl-					
diethylpropion		90-84-6			Formulation, modified-release, <=24hr Obesity	Obesity
Diethylstilbestrol		56-53-1	:	,		
Difemerine		80387-96-8	i			
Difenamizole		20170-20-1				
Difenoxin		28782-42-5				
Difenpiramide		51484-40-3				
	(5R)-5-Ethyt-9, 10-diffuoro-1,4,5,13- tetrahydro-5-hydroxy-3H,15H- xysoiny 2,4's indoliziny1,2-hurinolino.					
	3.15-dione					
diflomotecan		220997-97-7			Anticancer, other	Cancer, general
	Pregna-1,4-diene-3,20-dione, 17,21-	· ·				
diflorasone	bis(acetyloxy)-6,9-difluoro-11-hydroxy-16-methyl-, (6Aloha,118,168)- (CAS)	33564-31-7 2557-49-5	S	3980778	Antinsoriasie	
Difloxacin		7-3			l l	
Diffucortolone		2607-6-9	•	:		

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API Generic Name	API Chemical Name	CAS No.	Reference	9200	Example of Therapeutic Use	Example of Indication
diflunisal		•	GB 11	1175212	Analgesic, NSAID	Pain, post-operative
Diffuprednate Digitalin		23674-86-4 752-61-4 71-63-6				
		:			-	
	Card-20(22)-enolide, 3-{(0-2,6-dideoxy-ß-D-ribo-hexopyranosyl-(1-4)-0-2,6-dideoxy-					
	G-D-ribo-hexopyranosyl-(1-4)-2,6-dideoxy- G-D-ribo-hexopyranosyl)oxyl-12,14-					
digoxin	dihydroxy-, (38,58,128)- [CAS]	20830-75-5	SJ A	4088750	Formulation, oral, enteric-coated	Heart failure
Dihexyverine		561-77-3	:			
Dihydralazine		484-23-1	:			
Dihydrocodeine		125-28-0				
Dihydrocodeinone Enoi		466-90-0				
dinydroergocryptine	Ergocryptine, dihydro-[CAS]	25447-66-9			Formulation, other	Depression, general
	Ergotaman-3,6,18-trione, 9,10-dihydro-					
dindraeraotamine	12'-hydroxy-2'-methyl-5'-(phenylmethyl)-, (5'Abha,10Alpha)- (CAS)	511-12-6	<u> </u>	6495535	Formulation, modified-release, other	Migraine
Dihydromorphine	•	509-60-4				•
Dihydrostreptomycin		128-46-1	. ,			
Dihydrotachysterol		6-96-29	•			
Dihydroxyaluminum		13682-92-3				
Disonomine		5966-41-6		•		
Dilsopropyl Paraoxon	,	3254-66-8	: :			
Disopropylamine		660-27-5				
	Benzoic acid, 3,4,5-trimethoxy-, (tetrahydro-1H-1,4-diazeoine-1,4(5H)-					
dikazep	diyi)di-3,1-propanediyl ester [CAS]	35898-87-4	ar S	51095086	Vasodilator, coronary	
Dilevalol		75659-07-3				•
	2-Furancarboxylic acid, 4- [(dichloroacetyl)methylamino]phenyl ester 3736-81-0	3736-81-0				
diloxanide	[CAS]	579-38-4			Amoebicide	

			Patent			
API Generic Name		CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
	1,5-Benzothiazepin-4(5H)-one, 3-					
	ų.	22266 22 6		4721619		
	0-2-(4-memoxypmenyi)-, (20-03)-	423941-7	3 &		Antianginal	Angina, hypertension, general
diffazem	3	7705 67 4				
Dimecrotic Acid		1000				
Dimefline		1162-48-6				
Nimemorfan		36309-01-0				
		523-87-5			٠	
Витеплу динате		500 78 4	1			
Dimenoxadol		7 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1				
Dimepheptanol		42-65				
Dimercaprol		59-52-9				
Nimetacrine		4757-55-5				
Dimethadione		695-53-4				
Dilifediadion		519-30-2]			
Dimediazan		5626 62 0			•	
Dimethindene		20000000000000000000000000000000000000	-			
Dimethisoquin	:	909-00				
Dimethisterone		79-64-1				
Nimethocaine		94-15-5				
Oliver of the Control		477-93-0				
		67-68-5				
Dimethyl Sulfoxide		2.0				
Dimethylthiambutene		224-84-3	_i			
Dimetofrine		22950-29-4				
Dimorpholamine	,	119-48-2		-		•
. !	4m ,					
	daydroxy-9-oxo-, (54,11Agma,13E,155)- ICASI	363-24-6			Formulation, modified-release, <=24hr	Labour, induction
dinophosique	: :	140070.78.K	ıü	877077C	Antidianthogal	Diarrhoea, general
diosmectite		2012	<u> </u>			
	4H-1-Benzopyran-4-one, /-[jo-C-(o-oeoxy-					
	ohermonesoflow-5-tydroxy-2-(3-					
diosmin	hydroxy-4-methoxyphenyi)- [CAS]	520-27-4	띰	2602314	Vasoprotective, systemic	
Dioxadrol		6495-46-1				
Dioxaphoful		467-86-7	,			
Dioxethedrine		497-75-6				
Cicarbona		131-53-3	•	:		
DIOAYDOILEONG						

API Generic Name	API Chemical Name		Patent Reference	nce	Example of Therapeutic Use	Example of Indication
Diphemanil Diphenadione Diphencyprone Diphentydramine		62-97-5 82-66-6 886-38-4 58-73-1	;			
Diphenoxylate Diphenoxylate Dipherylpyraline Diphetarsone		915-30-0 147-20-6 515-76-4	<u>·</u>			
Diphtheria & Tetanus Toxoids And Acellular Pertussis						
Dipipanone	. :	467-83-4		•		
dipivefrin	nydroxy-2-(metrykamino)eunyi-1,2- phenylene ester, (+/-)- [CAS]	φ	S)	3809714	Antiglaucoma	Glaucoma
Dipyridamole		58-32-2 486-79-3	:			
Dipyrone	: .	5907-38-0				
diquafosol	Urdine 5'-(pentahydrogen tetraphosphata)-5'-ester with undine, [CAS]	211427-08-6			Ophthalmological	Dry eye syndrome
dirithromycin	Erythromycin, 9-deoxo-11-deoxy-9,11- [imino[2-(2-methoxyethoxy)ethylidene]oxy]- [19S(R)]- [CAS]	62013-04-1	OE 25	2515075	Macrolide antibiotic	Tonsilitis
disodium pamidronate	,	57248-88-1 65717-97-7	EP 17	177443	Osteoporosis treatment	Hypercalcaemia of malignancy
disopyramide Distigmine Disulfamide	2-Pyridineacetamide, Apha-[2-[bis(1-methylethyl)aminojethyl]-Apha-phenyl-[CAS]	3737-08-5 15876-67-2 671-88-5		: !	Formulation, modified-release, <=24hr	Arrhythmia, general

API Generic Name API Chemical Name CD Disulfiram Ditazol Ditinazanine 9(10H)-Anthracenone, 1,8-dihydroxy-111 CAS Dixanthogen C-7-{(7S)-7-Amino-5-azaspirol2,4 heptan-5-yr]-6-fluoro-1-(1R,2S)-2-fluoro-1- Cyclopropyl-1,4-dihydro-8-methoxy-4-oxo-3-quinolinesarboxylic acid hydrochloride monohydrate Dixanthogen							
inine 9(10H)-Anthracenone, 1,8-dihydroxy- [CAS] De 096n (-)-7-[(7S)-7-Amino-5-azaspiro[2,4]heptan- 5-yil-6-fluoro-1-[(1R,2S)-2-fluoro-1- cyclopropyil-1,4-dihydro-8-methoxy-4-oxo- 3-quinolinecarboxylic acid hydrochloride monohydrate Cytidine, 2'-deoxy-2'-methylene-, monohydrochloride [CAS] 5,6-dimethyloanthenone-4-acetic acid 1,2-Benzenediol, 4-[2-f]3-(4- hydroxyphenyl)-1- methylpropyljamino]ethylj-, (+/-)- [CAS] amine (2R,3S)-N-Carboxy-3-phenylisoserine, N- tert-buryl ester, 13-ester with 58,20-epoxy- 1,2Apha,4,78,108,108,100-1			CAS No. 97-77-8	Patent Refere	nce	Example of Therapeutic Use	Example of Indication
[CAS] Decogeo (-)-7-[(7S)-7-Amino-S-azaspiro[2.4]heptan-S-yfl-6-fluoro-1-(1R.2S)-2-fluoro-1-cyclopropyl[-1.4-dihydro-8-methoxy-4-oxo-3-quinoline-carboxylic acid hydrochloride monohydrate Cytidine, 2'-deoxy-2'-methylene-, monohydrochloride [CAS] 5,6-dimethyloanthenone-4-acetic acid 5,6-dimethyloanthenone-4-acetic acid 1.2-8enzenediol, 4-[2-f]3-f4-hydroxyphenyl]-1-methylpropyljamino]ethyl]-, (+/-)- [CAS] amine (2R,3S)-N-Carboxy-3-phenylisoserine, N-ter-buryl ester, 13-ester with 58,20-epoxy-1,24-ph.4,78,108,130-ph.4,78,108,130-ph.4,78,108,130-ph.4,78,108,130-ph.4,78,108,130-ph.4,78,108,130-ph.4,78,108,130-ph.4,78,108,130-ph.4,78,108,130-ph.4,78,108,130-ph.4,78,108,130-ph.4,78,108,130-ph.4,78,108,130-ph.4,78,108,130-ph.4,78,108,108,130-ph.4,78,108,130-ph.4,78,108,130-ph.4,78,108,108,130-ph.4,78,108,108,130-ph.4,78,108,108,130-ph.4,78,108,108,130-ph.4,78,108,108,130-ph.4,78,108,130-ph.4,78,108,108,130-ph.4,78,108,108,130-ph.4,78,108,108,130-ph.4,78,108,108,130-ph.4,78,108,108,130-ph.4,78,108,108,130-ph.4,78,108,108,130-ph.4,78,108,108,130-ph.4,78,108,108,130-ph.4,78,108,108,130-ph.4,78,108,108,130-ph.4,78,108,108,130-ph.4,78,108,130-ph.4,78,108,108,130-ph.4,78,108,108,130-ph.4,78,108,108,130-ph.4,78,108,108,130-ph.4,78,108,108,130-ph.4,78,108,108,130-ph.4,78,108,130-ph.4,78,108,108,130-ph.4,78,130-ph.4,78,130-ph.4,78,130-ph.4,78,130-ph.4,78,130-ph.4,78,130-ph.4,78,130-ph.4,78,130-ph.4,78,130-ph.4,78,130-ph.4,78,130-ph.4,78,130-p	, ,	-Anthracenone, 1,8-dihydroxy-	514-73-8				
thogen (-)-7-[(7S)-7-Amino-5-ezaspiro[2,4]heptan-5-yi]-6-fluoro-1-((1R,2S)-2-fluoro-1-(oydonopyl]-1,4-dihydro-8-methoxy-4-oxo-3-quinolinecarboxylic acid hydrochloride monohydrate (-)-7-((7S)-7-Amino-5-ezaspiro[2,4]heptan-5-yi]-6-fluoro-1-((1R,2S)-2-fluoro-1-(oxo-3-quinolinecarboxylic acid hydrochloride monohydrate (-)-7-((7S)-7-Amino-5-ezaspiro[2,4]heptan-1-(1143-38-0 148-18-5			Formulation, dermal, topical	S S S S S S S S S S S S S S S S S S S
(-)-7-{(7S}-7-Amino-5-azaspiro[2,4]heptan-5-ylj-6-fluoro-1-cyclopropylj-1,4-dihydro-8-methoxy-4-oxo-3-quinolinecarboxylic acid hydrochloride monohydrate K Cytidine, 2-deoxy-2-methylene-monohydrochloride [CAS] 5,6-dimethyloanthenone-4-acetic acid 5,6-dimethyloanthenone-4-acetic acid 5,6-dimethyloanthenone-4-acetic acid methyloropyljamino]ethylj-(+/-)-[CAS] mine 1,2-Benzenediol, 4-{2-t/3-(4-hydroxyphenyl)-1-methylpropyljamino]ethylj-(+/-)-[CAS] rpamine (2R,3S)-N-Carboxy-3-phenylisoserine, N-ter-buryl ester, 13-ester with 58,20-epoxy-1-2Apha-4,78,108,13Apha-	ryrazine 1927		502-55-6 2470-73-7	<u>8</u>	WO 01027115	Anticancer, other	Canoar, general
rtic Acid Cytidine, 2-deoxy-2-methylene-, monohydrochloride [CAS] 5,6-dimethylbanthenone 4-acetic acid 5,6-dimethylbanthenone 4-acetic acid 1,2-Berzenediol, 4-[2-[]3-(4-hydroxyphenyl)-1-methylpropyljamino)ethyl-, (+/-)- [CAS] rpamine (2R,3S)-N-Carboxy-3-phenylisoserine, N-tert-butyl ester, 13-ester with 58,20-epoxy-1,24phe,4,78,108,13Aphe-1,24phe,4,78,108,108,14phe-1,24phe,4,78,108,108,14phe-1,24phe-1		(-)-7-{(7S)-7-Amino-5-azaspiro{2,4}heptan-5-yf}-6-fluoro-1-{(1R,2S)-2-fluoro-1-cyclopropyf}-1,4-dihydro-8-methoxy-4-oxo-3-quinolinecarboxyfic acid hydrochloride					
Cytidine, 2-deoxy-2-methylene-, monohydrochloride [CAS] 5,6-dimethylbanthenone 4-acetic acid 5,6-dimethylbanthenone 4-acetic acid 1,2-Benzenediol, 4-[2-[]3-(4-hydroxyphenyl)-1-methylpropyljamino)ethyl-, (+/-)- [CAS] rpamine (2R,3S)-N-Carboxy-3-phenylisoserine, N-tert-butyl ester, 13-ester with 58,20-epoxy-1,24phe.4,78,108,134phe.	507k	monohydrate				Quinolone antibacterial	Infection, general
monohydrochloride [CAS] 5,6-dimethybanthenone-4-acetic acid 5,6-dimethybanthenone-4-acetic acid 1,2-Benzenediol, 4-[2-[]3-(4-hydroxyphenyl)-1-methybropyljaminojethylp, (+/-)- [CAS] rpamine (2R,3S)-N-Carboxy-3-phenylisoserine, N-tert-butyl ester, 13-ester with 58,20-epoxy-1,2Apha,4,78,108,13Apha-1,2Apha,4,78,108,13Apha-1,2Apha,4,78,108,13Apha-1,2Apha,4,78,108,13Apha-1,2Apha,4,78,108,13Apha-1,2Apha,4,78,108,13Apha-1,2Apha,4,78,108,13Apha-1,2Apha,4,78,108,13Apha-1,2Apha,4,78,108,13Apha-1,2Apha,4,78,108,13Apha-1,2Apha,4,78,108,13Apha-1,2Apha,4,78,108,13Apha-1,2Apha,4,78,108,13Apha-1,2Apha,4,78,108,13Apha-1,2Ap	actic Acid		598-82-3				
1,2-Berizenediol, 4-{2- 3-(4-hydroxyphenyl)-1-methydroxyphenyl)-1-methydropyljaminojethylj. (+/-)- [CAS] (2R,3S)-N-Carboxy-3-phenylisoserine, N-tert-butyl ester, 13-ester with 58,20-epoxy-1,2Aphe,4,78,108,13Aphe		Cylidiris, 2 -300xy-2 -116utycus-; monohydrochlorde [CAS] 5 6-dimethydranthenone-4-acetic acid	113648-25-2	8	WO 8807049	Anticancer, antimetabolite	Cancer, general
1.2-Benzenediol, 4-[2-[[3-(4-hydroxyphenyl)-1-methytpropyl]amino]ethyl]-, (+/-)- [CAS] (2R,3S)-N-Carboxy-3-phenylisoserine, N-tert-butyl ester, 13-ester with 58,20-epoxy-1,2Apha-4,78,108,108,13Apha-1,74,70,000,1	XX		; ;			Anticancer, other	Cancer, lung, general
i 2-Berzenediol, 4-[2-[]3-(4-hydroxyphenyl)-1-methylpropyljamino]ethyl]-, (+/-)- [CAS] ine (2R,3S)-N-Carboxy-3-phenylisoserine, N-tert-butyl ester, 13-ester with 58,20-epoxy-1,24pha,4,78,108,134pha-1,20-epoxy-1,24pha-1,24p	A Stealth Nucleosides besilate		20123-80-2	<u>ဒ</u> ်	6132776	Antiviral, anti-HIV	Infection, HIV/AIDS
(2R,3S)-N-Carboxy-3-phenylisoserine, N-ter-butyl ester, 13-ester with 58,20-epoxy-1,24pha,4,78,108,134pha-1,24pha,4,78,108,134pha-1,24pha,4,78,108,134pha-1,24pha,4,78,108,134pha-1,24pha,4,78,108,134pha-1,24pha,4,78,108,134pha-1,24pha,4,78,108,108,108,108,108,108,108,108,108,10	Namine	1,2-Benzenediol, 4-[2-[[3-(4-hydroxyphenyl)-1-methytpropyl[amino]ethyl]-, (+/-)- [CAS]	34368-04-2 49745-95-1 776-0-40-0	ಸ	3987200	Cardiostimulant	
Leader A and	carpamine	(2R,3S)-N-Carboxy-3-phenylisoserine, N-tert-butyl ester, 13-ester with 58,20-epoxy-1-2Abha-4,78,108,13Abha-	7-04-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-				
docetaxel tenzoate- [CAS]	ataxel psahexaenoic acid	hexahydroxytax-11-en-9-ons 4-acetate 2- 114977-28-5 benzoste- [CAS] 148408-66-6	114977-28-5 148408-66-6	& &	253738 707487	Anticancer, other Hypolipaemic/Antiatherosclerosis	Cancer, breast Hyperlipidaemia, general
1-Docosanol [CAS]	osanol	1-Docosanol [CAS]	661-19-8	<u>.</u> ت	469064	Antiviral, other	Infection, herpes simplex virus
docusate 57	usate		128-49-4 577-11-7	S	4752617	Formulation, dermal, topical	innection, nerpes simplex virus prophylaxis

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API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
dofetiide	Methanesulfonamide, N-{4-{2-{methyl[2-{4-}[(methylsulfonyl)amino]phenoxyjethyl]aminojphenoxyjethyl]aminojethyljphenylf-[CAS]	115256-11-6	8	245997	Antiantrythmic	Fibrillation, atrial
dolasetron mesilate Domiodol Domiphen Domitroban	1H-indole-3-carboxylic acid, octahydro-3- oxo-2,6-methano-2H-quinolizin-8-yl ester, (2Alpha,6Alpha,9Alpha,9Alpha,9,- monomethanesulfonate- [CAS]	115956-13-3 115956-12-2 61869-07-6 538-71-6 112966-96-8	a	266730	Antiemetic	Chemotherapy-induced nausea and vomiting
domperidone	201-1- 201-1- 0- [CAS]	57808-6 6 -9	S	4066772	Antemetic	
donepezii	1H-Inden-1-one, 2.3-dinydro-o,o-dimethoxy-2-((1-(phenymethyl)-4-piperidinyl)methyl)-, [CAS]	120011-70-3	B .	. 296560	Cognition enhancer	Azheimer's disease
donitriptan Dopamine	Piperazine, 1-(((3-(2-aminoethyl)-1H-indol-5-yl)oxy)acetyl)-4-(4-cyanophenyl)-[CAS] 170912-52-4 5-yl)oxy)acetyl)-4-(4-cyanophenyl)-1CAS] 170912-52-4 5-yl)oxy)acetyl	170912-52-4 51-61-6 86-107-47-0			Antimigraine	Migraine
Dopexamine	urea, N-[3-(1,1-dimethylethyl)-1-(4-methylphenyl)-1H-pyrazol-5-yl]-N*-[4-[2-(4-morpholinyl)ethoxy]-1-napthalenyl]-	285983-48-4		;	Antianthritic, immunological	 Arthritis, rheumatoki
doranidazole	(±)-1,2,4-Butanetriol, 3-((2-nitro-1H-imidazol-1-yl)methoxy)- [CAS]	137339-64-1	≩	9414778	Radio/chemosensitizer	Surgery adjunct
doripenem	(1R,5S,6S)-2-[(3S,5S)-5- (sulfamoylaminomethyl)pymolidin-3-yllthio- 6-[(1R)-1-hydroxyethyl]-1-methylcarbapen- 2-em-3-carboxylic acid	148016-81-3	& ;	528678	Beta-lactam antibiotic	Infection, uninary tract
dorzołamide	4H-Thieno(2,3-b)thiopyran-2-sulfonamide, 4-(ethylamino)-5,6-dihydro-6-methyl-,7,7- dioxide (4S-trans)- [CAS]	120279-96-1	£	296879	Antiglaucoma	Glaucoma

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API Generic Name	API Chemical Name	CAS No.	Reference		Example of Therapeutic Use	Example of Indication
dorzolamide + timolol	4H-Thieno(2.3-b)thiopyran-2-sulfonamide, 4-(ethytamino)-5,6-dihydro-6-methyl-7,7-dioxide (4S-trans) + ethyl 2-propanol, 1-((1,1-dimethyl)amino)-3-[(4-(4-morpholinyl)-120279-96-11,2,5-thiadiazol-3-yljoxyl-, (S), (Z)-2-butenedioate (1:1) (satt) [CAS]	120279-96-1 26839-75-8 26921-17-5	1		Formulation, fixed-dose combinations	Glaucoma
	Aluminium, (µ7-(7-((6-O-(6-deoxy-2.3,4-tri-O-sulfo-Alpha-L-mannosylpyranosyl)-2.3,4-tri-O-sulfo-8-D-glucopyranosyl)oxy)-5-hydroxy-2-(4-methoxy-3-(sulfooxy)phenyl-4H-1-benzopyran-4-oneto(7-)))tetradeca-phydroxytaradeca-phydroxyt	122312.65.4			Antiiker	Ulcer, gastric
dosmanata	1-Proparamine, 3-dibenzo[b,e]thispin-		-,			•
dosulepine	11(6H)-yildene-N,N-dimethyl- [CAS]	113-53-1			Antidepressant	
Dotarizine		84625-59-2	i			
Dothlepin		113-53-1				
Doxacurium	: : : : : : : : : : : : : : : : : : : :	106819-53-8	- : i-	!		
Doxapram		309-29-5	:	•		
	Piperazine, 1-(4-amino-6,7-dimethoxy-2-quinazolinyl)-4-[(2,3-dihydro-1,4-benzodioxin-2-yl)carbonyl- [CAS]	74191-85-8	89	2007656	Antitypertensive, adrenergic	Hypertension, general
Doxefazebam		40762-15-0		!		
Doxenitoin		3254-93-1				
doæpin	1-Propanamine, 3-dibenzib,e)oxepin- 11(6H)-yiidene-N,N-dimethyl-	1668-19-5			Formulation, dermal, topical	Pruntus
	9,10-seccergosta-5,7,10(19),22-tetraene-1,3-diol (1Alpha, 38, 52, 7E, 22E) [CAS]	54573-75-0	S	5104854	Hormone	Hyperparathyroidism
doxiffuridine	Uridine, 5'-deoxy-5-fluoro- [CAS]	3094-09-5	ള	4071680	Anticancer, antimetabolite	Cancer, colonectal
doxofyline	1H-Purine-2,6-dione, 7-(1,3-dioxolan-2-yimethyl)-3,7-dihydro-1,3-dimethyl-[CAS]	69975-86-6	S	4187308	Antiasthma	Asthma

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API Generic Name	API Chemical Name	CAS No.	Patent Reference		Example of Therapeutic Use	Example of Indication
doxonbicin	5,12-Naphthacenedione, 10-((3-amino- 2,3,6-trideoxy-Alpha-L-lyxo- hexopyranosyl)oxy]-7,8,9,10-tetrahydro- 6,8,11-trihydroxy-8-(hydroxyacetyl)-1- methoxy-, (8S-cis)- [CAS] 2-Naphthacenecarboxamine, 4- (dimethylamino)-1,4,4a,5,5a,6,11,12a- octalhydro-3,5,10,12,12a-pentahydroxy-6-	23214-92-8	g	191824	Formulation, optimized, liposomes	Canoer, general
doxycycline	methy+1,11-dioxo-[4S- (4Apha,4aApha,5Apha,5aApha,6Apha,1 564-25-0 2aApha)}- [CAS] N.N-Dimethyt-2-[1-phenyt-1-(2-	564-25-0 17086-28-1			Formulation, modified-release, immediate	Periodontitis
doxylamine	pyridinyl)ethoxy)ethanamine G-D-2,3-didehydro-2,3-dideoxy-5-	469-21-6			Formulation, transmucosal, systemic	Rhinitis, allergic, general
DPC-817 DPI-3290	fluorocytidine		<u>ფ</u> .	5681830	Antiviral, anti-HIV Analgesic, other	Infection, HIV/AIDS Pain, general
DC-113 Drofenine Drometrizole	5-Amino-7-{(3S,4R)-{1-aminocydopropyl}-3-fluoropyrolidin-1-yl}-1-{(1R,2S)-2-fluoro-1-cydopropyl}-1,4-dihydro-8-methyl-4-oxo-3-quinolinecarboxylic acid	1679-76-1 82413-20-5 2440-22-4 58-19-5			Quinolone antibacterial	Infection, general
dronabinol	6H-Dibenzolb, dipyran-1-ol, 6a,7,8,10a-tetrahydro-8,6,9-trimethyd-3-pentyl-, (6aR-trans)- [CAS] 2-n-Butyl 3-{4-(3-di-n-butylamino-propoxy)benzoylj5-	1972-08-3			Antiemetic	Chemotherapy-induced nausea and vomiting
dronedarone Droperidol Droprenilamine	methylsulfonamidobenzofuran	548-73-2 57653-27-7	:	·	Antianthythmic	Arrhythmia, general

API Generic Name Dropropizine Drospirenone Drotaverine Drotebanol	API Chemical Name	CAS No. 17692-31-8 67392-87-4 14009-24-6 32/3176	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
droxicam	2H,5H-1,3-Oxazino[5,6- cil1,2lbenzothiazine-2,4(3H)-dione, 5- methyl-3-(2-pyridinyl)-, 6,6-dioxde [CAS]	90101-16-9	₩ :	99770	Anti-inflammatory	Inflamnation, general
droxdopa Droxidopa	L-Tyrosine, 8,3-dihydraxy-, threo-[CAS]	23651-95-8 23651-95-8	<u>a</u>	128684	Antiparkinsonian	Parkinson's disease
DU-125530	1,2-Benzisothiazol-3(2H)-one, 2-{4-{4-(7-chloro-2,3-dihydro-1,4-benzodioxin-5-yl)-1-piperaziny[[buhyl]-, 1,1-dioxde [CAS] 2-Thiophenepropanamire, N-methyl-	161611-89-0	b .;	633260	Anxiolytic	Anxiety, general
duloxetine duramych Durapatite	Gamma-(1-naphthalenyloxy)-, hydrochloride, (S)- [CAS]	136434-9 116539-59-4 1306-06-5	გ. გ.	US 5362886 WO 9428726	Antidepressant Formulation, inhalable, solution	Depression, general Cystic fibrosis
durasteride	4-Azzandrost-1-ene-17-carboxamide, N- (2,5-bis(trifluoromethyl)phenyl)-3-oxo-, (5Alpha,178)- [CAS] N N-discorrosyl-4-4-13-	164656-23-9	နှ	5565467	Prostate disorders	Benign prostatic hyperplasia
DW-1141	aminobenzo(d)isoxazoł-6-yłoxy)butoxy}-3-methoxybenzamide (R)-(-7-((4-aminomethyl-4-methyl-3-(2)-		·		Osteoporosis treatment	Osteoporosis
DW-286a DW-471	methyloxyimino)pyrrolidin-1-yl)-1- cydopropyl-6-fluoro-4-oxo-1,4- dihydro[1,8]naphthyridine-3-carboxylic acid		is :	5922871	Quinolone antibacterial Antiviral, other	Infection, general Infection, hepatitis-B virus

API Generic Name		CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
DX-9065a	(aminoiminomethyl)-Alpha-[4-[1-(1-iminoethyl)-3-pyrrolidinyl]oxy]phenyl]-, monohydrochloride, pentahydrate, [S-(R*,R*)]- [CAS]	155204-81-2			Antithrombotic	Thrombosis, general
DY-9760e Dyclonine Dydrogesterone Dymanthine Dyphylline	1H-Indazole, 3-[2-[4-(3-chloro-2-methylphenyl)-1-piperazinyljethyl]-1-(1H-imidazol-4-ylmethyl)-5,6-dimethoxy- [CAS] 160522-00-9 [586-60-7 152-62-5 124-28-7 479-18-5	160522-00-9 586-60-7 152-62-5 124-28-7 479-18-5	<u>s</u>	5681954	Neuroprotective	schaemia, cerebral
E-1010	1-Azabioydo[3.2.0]hept-2-ene-2-carboxylic acd, 8-{(1R)-t-hydroxyethyl-3-{[(3S,5S)-5- [(R)-trydroxy(3R)-3-pyrrolidinylmethyl-3- pyrrolidinyljthio]-4-methyl-7-oxo- monohydrochloride, (4R,5S,6S)- [CAS]	186319-97-1			Beta-lactam antibiotic	Infection, general
E-2101 E2F antagonists	N-Ethyl-(1-(1-(2-fluorophenethyl)piperidin- 4-yl]-1H-indol-6-yl)acetamide	•	WÖ	9606943	Muscle relaxant Anticancer, other	Muscle spasm, general Cancer, general
E-3620	Benzamide, 4-amino-5-chloro-N-(8-methyl-8-azabicyde)3.2.1 oct-3-yl)-2-[(1-methyl-2-butymyl)oxyl-, monohydrochloride, [3(S)-endo)-[CAS]	151213-86-4	, 6 1,	554794	Antacid/Antiflatulent	Dyspepsia
E-5564	Apha-D-Giucopyranose, 3-O-decyl-2-deoxy-6-O-(2-deoxy-3-O-((3R)-3-methoxydecyl)-6-O-methyl-2-(((11Z)-1-oxo-11-ozdedeoenyl)amino)-4-O-phosphono-6-D-giucopyranosyl)-2-((1,3-dioxotetradecyl)amino)-1-(dihydrogen phosphata), tetrasodium salt [CAS]	185954-98-7	G	536969	Septic shock treatment	Sepsis

API Generic Name	API Chemical Name Pyridire, 4-(4-fluorophenyl)-1,2,3,6-	CAS No.	Patent Reference	it ence	Example of Therapeutic Use	Example of Indication
E-5842	tetrahydro-1-(4-(11+1,2,4-triazo+1-yl)bulyl- , 2-hydroxy-1,2,3-propanetricarboxylate (1:1) [CAS] 1-(4-Aminosulifonylphenyl)-5-(2,4- difluombanyl-4 5-dibydro-3-	220120-14-9			Neuroleptic	Schizophrenia
E-6259	trifluoromethyf-1-H-pyrazole		<u>-</u>		Antiarthritic, other	Unspecified
EAA-90 e-Acetamidocaproic	[2-(8,9-Dioxo-2,6-diazabicyclo[5.2.0]non-1(7)-en-2-yl}-ethyl[phosphonic acid	. 6-80-25			Analgesic, other	Pain, neuropathic
Acid E-Aminocaproic Acid	1-Butanone, 1-[4-(1,1-	60-32-2	· .			
ebastine	dimethylethyl)phenyl]-4-{4- (diphenylmethoxy)-1-piperidinyl]- [CAS]	90729-43-4	<u>무</u> ;	134124	Antiallergic, non-asthma	Rhinitis, allergic, seasonal
eberconazole	dihydro-5H-dibenzo(a,d]cyclohepten-5-yi)- 128326-82-9 [CAS]	!	ES -	2012297	Antifungal	Infection, dermatological
ebrotidine	Carboniconed y and the first that th	100981-43-9		159012	Antiulcer	Ulcer, duodenal
ebselen Eburnamonine	1,z-vertzisoserenazok-3(zh)-one, z-pnenyr- [CAS]		면 - 4	44971	Neuroprotective	Haemormage, subarachnoid
Ecabapide .	1-Phenanthrenecarboxylic acid, 1,2,3,4,49,9,10,10a-octahydro-1,4a- dimethyl-7-(1-methylethyl)-6-sulfo-, [1R- (1Apha,4a3,10aAlpha)]- [CAS] Glycine, N-[2-[(acatytthio)methyl]-1-oxo-3-	104775-36-2 33159-27-2 86408-72-2	ក, 	3239172	Antiuker	Ulcer, gastric
ecadotril Ecgonidine Ecgonine Echothiophate	phenytpropyl-, phenytmethyl ester, (S)- [CAS]	112573-73-6 484-93-5 481-37-8 513-10-0	<u></u>	318377	Antihypertensive, other	Hypertansion, general

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API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Inerapeutic Use	Example of Indication
Econazole		27220-47-9				
	5H-Benzoldjnaphth[2,1-b]azepin-12-ol, 11-					
	chloro-6,6a,7,8,9,13b-hexanydro-7-methyl-	1				
ecopipam		112108-01-7	2	230270	Anorectic/Antiobesity	Opesity
	Prosta-8,13-dien-1-oic acid, 11,15-					
	dihydroxy-9-(1-oxobutoxy)-, butyl ester,					
ecraprost		136892-64-3	<u>a</u>	423697	Vasodilator, peripheral	Peripheral vascular disease
Detellings		95-04-5	:			
	9 10 Commendate 5 7 10(19) triene.		:			
	4 9 25 trial 3 /3 birdonomonomy					
ř	(, 0, 20-4) M. 2 () - () () () () () () () () (104121-02-8		18420G	Octaonorosis treatment	Ostaoporosis
	((Agala, 23, 35, 7 E/ [CAS]		5	3.	Osledova usanieni	
	3H-Pyrazot-3-one, 2,4-dinyaro-3-memyr-2-				•	
edaravone	phenyl-[CAS]	89-25-8	<u>.</u>	62108814	Neuroprotective	Infarction, cerebrai
Edatrexate		80576-83-6				
Edetate Calcium		62-33-9	i — -	,		
Disodium	::		1			
Edetate Disodium	:	139-33-3				
Edetate Sodium		64-02-8				
Edutato Tabondium		150-38-9				
Edetate i risodium		20000	<u>:</u>			
	Butanamide, N-[12-[14,5-dimethyl-3-					
	isoxazoyl)aminojsultonylj-4-(2-					
	oxazoly/k1,1'-biphenyl-2-yljmethyl-N,3,3-					
	trimethy-, monohydrate					
edonentan		210891-04-6			Cardiostimulant	Heart failure
	IN-[2-[4,7-Bis[(carboxy-kappaO)methyl]-10-					
	(carboxymethyl)-1.4,7,10-					
	tetraszacyclododec-1-yi-					
	kappaN1,kappaN4,kappaN10jacetylj-D-					
	phenylalany-L-cysteiny-L-tyrosyl-D-					
	hyptophyl-L-ysyl-L-meonyl-L-cystemyl-L-			•		
•	uned mos cycle (2-1) resultation of	0 44 04040		700000		
edotreotide	Manuful	204516-14-9	3	17/2010	Anticancer, normonal	Cancer, iung, smaii œii
	Iridina 2. denxy-5-efflyl- [CAS]	15176-29-1	ď	1170585	Antisimal other	Information homos virus agraph
BUOMAGINE	· · · · · · · · · · · · · · · · · · ·	455500000			Yiuviai, outei	anector, nerves vaus, general
Edrecolomab		8-80-00COC	- <u> </u>			• • • • • • • • • • • • • • • • • • •
Edrophonium		116-38-1		•		
Efaith	Butanedioic acid, lithium salt [CAS]	16090-09-8			Antipruritic/inflamm, allergic	Eczema, seborrhoeic

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API Generic Name	API Chemical Name	CAS No.	Reference	ence	Example of Therapeutic Use	Example of Indication
	Propanoic acid, 2-[4-[2-[(3,5-dimethytphenyl)amino]-2-					
efaproxiral	oxoethyllphenoxyl-2-methyl- [CAS]	131179-95-8	S	5705521	Radio/chemosensitizer	Cancer, brain
	2H-3,1-Benzoxazin-2-one, 6-chloro-4- (cyclopropylethymy)-1,4-dihydro-4-				-	
efavirenz	(trifluoromethyl)-, (S)- [CAS]	154598-52-4	<u>м</u>	9403440	Antiviral, anti-HIV	Infection, HIV/AIDS
:	[2-[4-[Bis(p-fluorophenyl)methyl]-1-	•			:	-
effetirizine	piperazinyljethoxyjacetic acid	150756-35-7	<u>. 23</u>	2311940 :	Antiallergic, non-asthma	Allergy, general
eflomithine	DL-Omithine, 2-(difluoromethyl)- [CAS]		S 4	4413141	Protozoacide, dermal, topical	African, Hirsutism
Efloxate	****	119-41-5	•			
	Benzaneacetamide, Alpha-(dodecytthio)-N-(4-hydroxy-2,3.5-trimethylphenyl)- (S)-		<u></u>			
eflucimibe	[CAS]	202340-45-2	i		Hypolipaemic/Antiatherosclerosis	Hyperlipidaemia, general
	3-pyridinecarboxylic acid, 5-(5,5-dimethyl-				;	
	1,3,2-dioxaphosphornan-2-yr-1,4-dinydro- 2.6-dimethyl-4-(3-nitrophenyl)-, 2-	111011-53-1				
	(phenyl(phenylmethyl)amino)ethyl ester, P-111011-63-3					•
efonidipine	oxide [CAS]	111011-76-8	<u>정</u>	230944	Antihypertensive, other	Hypertension, general
	5-Chloro-4-(3-(N-[2-(3,4-dimethownhem/Pethyll-N-				-	
	methylamino]propylamino}-3(2H)-		·			
EGIS-7229	pyridazinone fumarate [CAS]		띰	4243381	Antiarrhythmic	Arrhythmia, general
	oxylic acid,	176199-48-7				, del A
egturegad	2-dmmo-, (10,20,0K,00)- (M2)	2032 10-03-1 07692 31 3			Anxionyuc	Andery, general
edualen			ن ج	147915	Antiucer	Ulcer, gastric
Elcosapentaenoic Acid		10417-94-4	-	•		:
	3-Pyridinepropanoic acid, B-(((3R)-1-11-					
elamiliban	oxo-3-(4-pipendinyi)propyi]-3- pipendinyi]carbonyilamino}-, (BS)- [CAS]	198958-88-2		WO 9741102	Antithrombotic	Thrombosis, general
Elcatonin		မှ	 			. '
Eledoisin	:	69-25-0	<u> </u>			
eletriptan	(phenylsuffonyl)ethyl)- (R)- [CAS]	143322-58-1	S	5607951	Antimigraine	Migraine
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API Generic Name	API Chemical Name	CAS No.	Kererence	<u>ට</u> ව	Example of Inerapeutic Use	example of indication
Elgodipine		119413-55-7				
Ellagic Acid		476-66-4				
Elliptinium		58337-35-2				
Ettoprazine		98224-03-4				
	E-L-2,3-Didehydro-2,3-dideoxy-5-			•		
etvucitabine	fluorocytidine	181785-84-2			Antiviral, other	Infection, hepatitis-B virus
	(22)-4-(3,4-dichlorophenyl)-2-[2-(4-		· · · · · ·			
	meunypperazer-i-v/benzylideneithiomorpholin-3-one	220322-05-4				
	monohydrochloride- [CAS]	361343-20-6			Antidepressant	Depression, general
Embelin		550-24-3				
Embramine		3565-72-8				
: : : : : : : : : : : : : : : : : : : :	1H-Benzimidazole, 1-(2-ethoxyethyl)-2-					
	(hexahydro-4-methyl-1H-1,4-diazepin-1-yl) 87233-61-2	87233-61-2				
emedastine	(E)-2-butenedioate (1:2) [CAS]	87233-62-3	EP 79545	5	Antiallergic, non-asthma	Rhinitis, allergic, general
Emepronium		3614-30-0				
Emetine		483-18-1	•		•	
Emitefur		110690-43-2				
	•					
	17Apha-Acetoxy-8Alpha-methyl-19-nor-					
	16,23-dinydrocycopropa(1,2'jpregn-4-ene- 3,20-dione+Estra-1,3,5(10)-triene-3,17-					
	diot(178)					
EMM-210525					Formulation, fixed-dose combinations	Hormone replacement therapy
Emodin	' !	518-82-1				•
emorfazone	3(2H)-Pyridazinone, 4-ethoxy-2-methyl-5- (4-momholimyl- ICAS)	38957.41.4	7	7224030	Antiinflammaton	
EMR-62203	:		. ~	9806722	Male sexual dysfunction	Impotence
	2(1H)-Pyrimidinone, 4-amino-5-fluoro-1-(2-		; 			
emtricitabine	(hydroxymethyl)-1,3-oxathiolan-5-yl)-, (2R-cis)- [CAS]	143491-57-0	WO 921	9214743	Antiviral, anti-HIV	Infection. HIV/AIDS
Emylcamate		78-28-4		:	1	:
	L-Proline, 1-[N-[1-(ethoxycarbony)-3-	<u> </u> - -		:		
enalapril	butanedioata [CAS]	76095-16-4	US 4374	4374829	Antihypertensive, renin system	
Enalaprilat		76420-72-9	-	!		
Enallylpropymal		1861-21-8				
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	ADI Chomical Name	ON UND	Patent	Patent	Evamnle of Therapeutic Use	Example of Indication
Arr ceneric name Encainide	Ari Cilemea Mane	66778-36-7				
Enciprazine		68576-86-3				
Endralazine		39715-02-1				
	Benzoic acid, 2-{(2-phenylethyl)amino}-	22040 02 6		100066	A delimentation of the second	
entenamic acid		2000	; ≧	9999	Air-illiailliaioly	
	Ethane, 2-chloro-1-(diffuoromethoxy)-1,1,2-	0 07 00007	9	7700077		cinco tto
enflurane	trilluoro-[CAS]	13636-16-9	3	2469017	Anaesmeuc, Innalation	Anaesuresia
Enilconazole		35554 44-0				
Eniluracil		59989-18-3				
	S-3-amino-phthalidoglutarimide					
ENMD-0995	,		2	5712291	Anticancer, other	Cancer, myeloma
Enocitabine		55726-47-1			•	
	fole-3-propanoic acid, Alpha-oxo-	·				
Enol-3-IPA		392-12-1	<u>a</u>	106813	Hypnotic/Sedative .	Insomnia
:	1,8-Naphthyridine-3-carboxylic acid, 1-	:		··-		
-	ethyl-8-fluoro-1,4-dihydro-4-oxo-7-(1-					
enoxacin	piperazinyl)- [CAS]	74011-58-8	2	4359578	Quinolone antibacterial	Infection, general
:	•	9005-49-6			•	
enoxaparin		9041-08-1	<u>B</u>	40144	Antithrombotic	Thrombosis, venous
	ne, 1,3-dihydro-4-methyl-5					
enoximone	[4-(methylthio)benzoyl]- [CAS]	77671-31-9	<u>a</u>	59948	Cardiostimulant	Heart failure
Enoxolone		471-53-4				
	4,5-Heptadienoic acid, 7-[3-hydroxy-2-(3-				•	,
	hydroxy-4-phenoxy-1-butenyf)-5-		,			
:		0 02 70701	6	707.000		
enprostil	[1Apha,218(1E,3K-),3Aphaj-[CH5]	6-96-1716/	3	L545202	Prostagiandin	Oloer, duodenal
	1H-Indene-2-carboxylic acid, 1-(1,3-					•
	benzodioxal-5-yl)-2,3-dihydro-3-(2-(2-					•
	hydroxyethoxy)-4-methoxyphenyl)-5-					
enrasentan	propoxy-, (15-(1Apha,24,3Apha))- [CAS] 167256-08-8		<u>ဒ</u> ုံ	5817693	Antihypertensive, other	Hypertension, pulmonary
-	2-Propensmide 2-cyano-3-(4.5-dibydroxy-					
entacapone		130929-57-6	<u>a</u>	426468	Antiparkinsonian	Parkinson's disease
	<u> </u> 	· · · · · · · · · · · · · · · · · · ·				
	6H-Purin-6-one, 2-amino-1,9-dihydro-9-					
entecavir	((15,3X,45)-4-nydroxy-2-(nydroxymeunyr)- 2-methylenecydopentyl]- [CAS]	142217-69-4	<u> </u>	481754	Antiviral other	Infection, hepatitis-B virus
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API Generic Name	API Chemical Name	CAS No.	Ref	Reference	Example of Therapeutic Use	Example of Indication
Enviomycin		33103-22-9				
	3-Thiazolidineacetic acid, 5-(2-methyl-3-		<u>. </u>	1		
	phenyl-2-propenylidene)-4-oxo-2-thioxo-,					1
epairestat	(EE)-[CAS]	82159-09-9	<u>.</u>	47109	Symptomatic antidiabetic	Neuropathy, diabetic
	L-lysine-cis-5,8,11,14,17-					
	eicosapentanoate with L-lysine-cis-					
Epavir	4,7,10,13,16,19-doahexanoate				Antiviral, other	Infection, herpes simplex virus
	L-ascorbic acid 2-13,4-dihydro-2,5,7,8-	1				
	tetramethyl-2-(4,8,12-trimethyltridecyl)-2H-			-		
	1-benzoovran-6-vi-hvdrogen					
FPC-K1		127061-56-7	<u>د</u>	127471	Neuroprotective	Infarction, cerebral
	vh-2-methvi-3	!	·,_			•
eoerisone	(1-eiperidinyl)- [CAS]	64840-90-0	2	3995047	Muscle relaxant	Spastic paralysis
		:	:			•
epervidine	Uridine, 2'-deoxy-5-(1-methylethyl)- [CAS] 60136-25-6		뻥	2918260	Antiviral, other	Infection, herpes simplex virus
;		ı				•
	•	200 14-00				
	: :	5-06-47/07				
Epimestrol		7004-98-0			•	
	azepin-3-					
epinastine	٠	80012-43-7	씸	3008944	Antiasthma	Asthma
	nino) ethyll-	•		:		
	1,2-benzenediol					
epinephrine					Formulation, inhalable, dry powder	Anaphytaxis
Epirtzole		18694-40-1		: :	•	:
			· 		•	:
	5,12-Naphthacenedione, 10-[(3-amino-					
	2,3,6-trideoxy-Alpha-L-arabino-					•
		200 000				
	0,0,11-dhiydioxy-0-(nydroxydoxiyi)-1-	30390-08-1 56430-46-2	ę	4467000		
epirubicin	ווופתונסאלי (פסיכול) לינים	7-0-07-00	5	145/632	Anticancer, antibiotic	•
Epitiostanoi		2363-58-8		. —		
	Pregn-4-ene-7,21-dicarboxylic acid, 9,11-					
	epoxy-17-hydroxy-3-oxo-, Gamma-lactone,					
	metryl ester (7 Apha, 11 Apha, 17 Apha)-	1077704	6	40000		
eparamone	المحا		ان	12222	Anunypermensive, diureuc	rypertension, general

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API Generic Name	ne rophenyl)-3-(4-	CAS No.	2	Reference	Example of Therapeutic Use	Example of Indication
	hydroxyphenyl)-, O-(2- (dimethylamino)ethyl)oxime, (Z)-, (E)-2-					
eplivanserin	butenedioate (2:1) (salt) [CAS]	130580-02-8	윱	373998	Anxiolytic	Schizophrenia
	Prosta-5,13-dien-1-oic acid, 6,9-epoxy-					
	11,15-dihydroxy-,	35121-78-9			;	
epoprostenol	(5Z,9Apha,11Apha,13E,15S)-CAS	61849-14-7	<u> </u>	2720999	Prostaglandin	Hypertension, pulmonary
Epostane	,	80471-63-2				
Eprazinone		10402-90-1				
Epristeride		119169-78-7				
! : !	3-[2-Butyl-1-(4-carboxybenzyl)-1H-	:				
	midazot-5-yij-2-(z-menyimenyi)-2-(z-) propencic acid			_		
	•	133040-01-4	<u> </u>	403159	Antihypertensive, renin system	Hypertension, general
Eprozinol		32665-36-4				·
	4-methyl-2-[4-(4-(pyrimidin-2-yl)-	1 1				
	piperazino)-butyll-2H,4H-1,2,4-triazin-3,5-					
eptapirone	dione	179756-85-5			Antidepressant	Depression, general
i	Platinum ((4R.5R)-2-(1-methylethyl)-1.3-	•	_			
	dioxolane 4,5-dimethanamine-					
	kappaN4,kappaN5jjpropanedioato(2-)-					
eptaplatin	kappaO1,kappaO3}-, (SP-4-2)- [CAS]	146665-77-2	8	9216539	Anticancer, alkylating	Cancer, lung, small cell
Eptastigmine	;	101246-68-8	ا نــــ			
	1,6-Methano-1H-4-benzazonin-10-ol,		<u></u>			
	2,3,4,3,0,7-nexanydro-1,4-dimemyr, (13)-					
eptazocme		72522-13-5	8	4082744	Analgesic, other	
Eptifibatide		188627-80-7				
Equilenin		517-09-9				
Equilin	,	474-86-2				
ERA-923		352233-89-7	<u>a</u>	802183	Female contraceptive	Contraceptive, female
	Iro-2-0xo-3-		;	4		
erdosteine		84611-23-4	<u>a</u>	61386	Respiratory	Respiratory disease, general
Ergocomine	1	564-36-3				1
Ergocominine		564-37-4	!			
Ergoloid Mesylates		8067-24-1	-	•		-
Ergonovine		60-79-7	<u> </u>	Lu.		•
Ergosterol		57-87-4				

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API Generic Name	API Chemical Name	CAS No.	Patent Referen	Patent Reference	Example of Therapeutic Use	Example of Indication
ergotamine	(S'Alpha)-12-Hydroxy-2'methyl- (phenyimethyl)ergotaman-3',6', 18-trione	113-15-5			Formulation, inhalable, systemic	Migraine
Eritadenine	thynylphenyl)-	23918-98-1	:			localisms and soul society
ertotinib	monohydrochloride [CAS] 1-Azabioydoj3.2.0]hept-2-ene-2-earboxylic acid 3-ff/3SSN-5-ff/3-	183319-69-9	§.	9630347	Anticancer, other	Carca, ning, nor-sman can
ertapenem	carboxyphenyl)amino]carbonyll-3- pyrrolidinyl[thio]-6-[(1R)-1-hydroxyethyl]-4- 153773-82-1 methyl-7-oxo-, [CAS]	153773-82-1 153832-46-3	8	WO 9315078	Beta-lactam antibiotic	Infection, GI tract
Erythrityi Tetranitrate Erythrocentaurin		7297-25-8 50276-98-7				
	Enthromycin, Z-acetate, octadecanoate (satt) [CAS]	96128-89-1	S	4599326	Macrolide antibiotic	Infection, general
Enthromycin Estolate	:	3521-62-8 23067-13-2				
Glucoheptonate Erythromycin	1	3847-29-8				
Lactobionate Erythromycin		134-36-1				
Propionate Erythromycin Stearate	Enthrowein 2 organisa control with	643-22-1				Infection, respiratory tract,
erythromycin stinoprate	Nacety-L-cysteine (1:1) [CAS] Enthromycin [CAS]	84252-03-9 114-07-8	<u>a.</u>	57489	Macrolide antibiotic Formulation, dermal, topical	lower Acre
Erythrophleine Esabrazole		36150-73-9 64204-55-3				
	5-isoberzofurancarbonitrile, 1-(3- (dimethylamino)propyl-1-(4-fluorophenyl)- 1 3-dimete, (St. ICAS)	128196-01-0	. <u>a</u>	347066	Antideoressant	Depression, general
Esculin		531-75-9	: :	·].		
Eseridine		1-04-01007				

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API Generic Name	API Chemical Name	CAS No.	Refei -	Reference	Example of Therapeutic Use	Example of Indication
	Benzenepropanoic acid, 4-{2-nydroxy-3-{(1 methylethyl)aminolpropoxy}-, methyl ester,			- ,-		
esmolol	(++)- [CAS]	81147-92-4	S	4387103	Antihypertensive, adrenergic	Tachycardia, supraventricular
: :	bis (5-methoxy-2-(((4-methoxy-3,5-dimethyl-2-pyridinyl)methyl)sulfinyl)-1H-benzinidazolato)	•				
esomeprazole		161973-10-0	3	5877192	Antispasmodic	Gastro-oesophageal reflux
:	4H-[1,2,4]Triazolo(4,3-alf.1,4)benzodiazepine, 8-chloro-6-phenyl-	i : : : : :	i			
estazolem	[CAS]	29975-16-4	3	3987052	Hypnotic/Sedative	
ethadial	17-hydroxy-, (17B)-	58-22-0	2	5460820	Formulation transdermal patch	Sexual dysfunction, female
	1,3,5(10)-triene-3,17-diol (17ß)-	:				Menopausal symptoms,
estradiol	[CAS]	50-28-2	8	430491	Formulation, transdermal, systemic	general
ectramistina	Estra-1,3,5(10)-triene-3,17-diol (178)-, 3- Dist2-chloroethyl)carbamatel 17- [CAS]	2998-57-4 4891-15-0 52205-73-9			Anticancer alkylating	Cancer, prostate
Estriol		50-27-1				
		; !		770700		Menopausal symptoms,
estrogen Estrone		53-16-7	<u>"</u> ;	1404766	Menobausal disolueis	
			· · · · ·		•	
	1-Piperazinecarboxylic add, 4-methyl- 6-(5-chloro-2-pyridinyl)-6,7-dihydro-7-oxo-5H-	0 17 00000				
eszopicione	pyrroo(3,4-0/pyrazin-5-yr ester (3)- [45]	138/29-4/-2	3	/000/0	Hypnotic/Sedative	Insomnia
Etafedrine		7681-79-0				
Etamiohvilla		314.35.2				-
Etanercept	•	185243-69-0				
Etanidazole	•	22668-01-5	.			•
Etaqualone		7432-25-9	-			·
Eterobarb		27511-99-5				. 1
Ethacridine		442-16-0				
Ethodione	:	520-77-4	. 1	:		
Ethanbidol		74-55-5				1
Ethamiyan		304-84-7	:	i		
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API Generic Name	API Chemical Name	CAS No.	Refer	Reference	Example of Therapeutic Use	Example of Indication
Ethamsvlate		2624-44-4		:		
Ethanolamine		141-43-5				
Ethaverine		486-47-5	-			
Ethehlorynol		113-18-8				
Ethenzamide	,	938-73-8	<u> </u>			
Ethiazide	· ·	1824-58-4				
Ethinamate		126-52-3	<u></u>			
Ethiovi Fatradiol		57-63-6				
	19-Norpregna-1,3,5(10)-trien-20-yne-3,17-					
	GON, 3-(z-proparesuronate), (17 Apria)-	28012.22.7	y	10,40,006	Commission modified misses 194hr	Capper proctate
ethinyl estradiol		1-67-61-607		CSS.	romulation, modified-refease, 724nf	cancer, prostate
Ethionamide		536-33-4				
Ethisterone		434-03-7		•		
Ethoheptazine		77-15-6		•		-
Ethopropazine		522-00-9				
Ethosuximide	!	77-67-8				
Ethotoin	·	86-35-1				
Fthorzolamide		452-35-7				
Ethybonatronine		524-83-4	÷	•		
Ethyl Alcohol		64-17-5		:		
Carlo Line		540 AN E	+	!	:	
Ethyl Biscoumacetate		20-04-0	-	:		
Ethyl Chloride		2963	- i	· ·	•	
Ethyl Dibunate		5560-69-0	_			
Ethyl Ether		60-29-7		•		
	5,8,11,14,17-Eicosapentaenoic acid, ethyl		:			
ethyl icosapentate	ester, (all-Z)- [CAS]	86227-47-6	<u>.</u>	61043143	Antithrombotic	Peripheral vascular disease
	1H-1,4-Benzodiazepine-3-carboxylic acid,					
	7-chloro-5-(2-fluorophenyl)-2,3-dihydro-2-					
ethyl loflazepate	oxo-, ethyl ester [CAS]	29177-84-2	ရှ	3657223	Anxiolytic	Anxiety, general
Ethyl Loffazepate		29177-84-2	·			
Ethylamine		75-04-7	<u> </u>			
Ethylene		74-85-1	 ! 			:
Ethylestrenol		965-90-2	 			
Ethylidene Dicoumarof		1821-16-5				
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API Generic Name Ethylmethylthlambutene	API Chemical Name	CAS No. 441-61-2	Refe	Reference	Example of Therapeutic Use	Example of Indication
Ethylmorphine Ethylnorepinephrine		76-58-4 536-24-3				
Ethynodiol ethynycytidine	Undine, 3'-Cethynyl- [CAS]	1231-93-2 180300-49-6 36637-18-0	Š.	9618636	Anticancer, antimetabolite	Cancer, general
etidronate	Phosphonic acid, (1-hydroxyethylidene)bis- , [CAS]	2809-21-4 7414-83-7 2809-21-4	ള.	4137309	Osteoporosis treatment	Osteoporosis
Eufelmin etifoxine Etifoxine	4H-3, 1-Benzoxazin-2-amine, 6-chloro-N- ethyl-4-methyl-4-phenyl- [CAS]	21715-46-8 709-55-7		3725404	Anxiolytic	
etilevodopa	L-Tyrosine, 3-hydroxy-, ethyl ester [CAS] androsta-1, 4-diene-17-carboxylic acid, 17-[(dichloroacetyl)oxy]-11-hydroxy-3-oxo-, othyl caps, 141, 174hhab.	37178-37-3	S	5354885	Antiparkinsonian	Parkinson's disease
etiprednol Etiroxate Etizolam	(115, 174) (0)	199331-40-3 17365-01-4 40054-69-1			GI inflammatory/bowel disorders	Crohn's disease
etodolac Etodroxtzine	Pyrano(3,4-b)indole-1-acetic acid, 1,8- diethy4-1,3,4,9-tetrahydro- [CAS]	41340-25-4 17692-34-1	ಸ	3939178	Antiarthritic, other	Arthritis, osteo
etofenamate	Benzoic acid, 2-[[3- (trifluoromethyl)phenyljamino]-, 2-(2- hydroxyethoxy)ethyl ester [CAS] 3-Pyridinecarboxylic acid, 2-[2-(4-	30544-47-9	89	1285400	Anti-inflammatory, topical	Inflammation, general
etofibrate Etofylline	chlorophenoxy)-2-methyl-1- oxopropoxyjethyl ester [CAS]	31637-97-5 519-37-9	S	3723446	Hypolipaemic/Antiatherosclerosis	
etofylline cofibrate Etofylline Nicotinate	Propanoic acid, 2-(4-chlorophenoxy)-2- methyl-, 2-(1,2,3,6-tstrahydro-1,3-dimethyl- 2,6-dioxo-7H-purin-7-yl)ethyl ester [CAS]	54504-70-0 13425-39-3	8	2308826	Hypolipaemic/Antiatherosclerosis	

			Patent	1		
API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
Etoalucid		1954-28-5			CONTRACTOR	
Etomidate		33125-97-2				
Etomidoline		21590-92-1		-		
Etonitazene		911-65-9				
	18,19-Dinorpregn 4-en-20-yn-3-one, 13-					
atonooestrel	[CAS]	54048-10-1			Formulation, implant	Contraceptive, female
Etoperidone		52942-31-1				
	Furo13' 4':6 71naphthol2 3-d1-1.3-dioxol-					
	6(5aH)-one, 9-(4,6-O-ethylidene-ß-D-					
	glucopyranosyl)oxy]-5,8,8a,9-tetrahydro-5-					
•	(4-hydroxy-3,5-dimethoxyphenyl)-, [5R-	22440 42 0		400505		Capper teetingler
etoposide	[CAD] -[(LAS) ask gavena's ask (L)] - [CAS]	つるするしまって	3	006071	Andcander, ourer	Calical, testicated
	Furo[3',4':6,7]naphtho[2,3-d]-1,3-dioxol-					
••••	6(5aH)-one, 5-[3,5-dimethoxy-4-					
	(phosphonooxy)phenyil-9-[(4,6-0-			•		
•	ethylidene-&-D-glucopyranosyl)oxy}-					
•	5,8,88,9-terranydro-, [5rc-	0 10 1001	6	000	A	To the state of
etoposide phospinate	[CAN] -II New and who she is and wol	7-10-160/11		302473	Andcancer, ourer	Cancal, testinai
	2,3-Bipyndine, 5-chiono-o-memyr-3-(4-				:	
etoricoxib	(methylsulfonyl)phenyl) [CAS]	202409-33-4	Ş	9803484	Antiarthribc, other	Aminus, osteo
Etoxadrol		28189-85-7				
Etozolin		73-09-6		•		
	2,4,6,8-Nonatetraenoic acid, 9-(4-methoxy-					
	2,3,6-trimethylphenyl-3,7-dimethyl-, ethyl	•				
etretinate	ester, (all-E)- [CAS]	54350-48-0	8	4215215	Antipsoriasis	,
Etryptamine		2235-90-7				,
Etymemazine		523-54-6				
Eucatropine		100-91-4				
Eugenol		97-53-0				
	Manganese, chloro[[2,2'-{1,2-					
	ethanediylbis[(nitrilo-					
	kappaN)methylidyne]jbis(6-					
E11/ 134	methoxyphenoiato-tappaolii-, (51-5-15)-	81065.76-1	<u>v</u>	6046188	Cardiovaecular	Inspecified
FORICE			7			

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API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
EUK-189 Evan's Blue		314-13-6	S	6046188	Radio/chemoprotective	general
everolimus exalamide Exametazime	Rapamycin, 42-O-(2-hydroxyethyl)- [CAS] 159351-69-6 Benzamide, 2-(hexyloxy)- [CAS] 53370-90-4 10H,13H- Benzo[de]pyrano[3',4':6,7]indoizino[1,2-b]quinoline-10.13-dione, 1-amino-9-ethyl-5-	159351-69-6 53370-90-4 105613-48-7	WO GB	9409010 726786	Immunosuppressant Antifungal	Transplant rejection, general Infection, fungal, general
exatecan	4-methyl-, (15,98)-, [CAS]	171335-80-1			Anticancer, other	Cancer, pancreatic
exemestane Exifone		107868-30-4 52479-85-3	범	3622841	Anticancer, hormonal	Cancer, breast
exisulind Exosurf®	1H-indene-3-acetic acid 5-fluoro-2-methyl- 1-((4-(methylsulfonyl)phenyl)methylene)-, (Z)- [CAS]	59973-80-7 99732-49-7			Anticancer, other	Polyp
ezetimibe Factor IX Factor VIII	2-Azatidinone, 1-(4-fluorophenyl)-3-[(3S)-3- (4-fluorophenyl)-3-hydroxypropyl]-4-(4- hydroxyphenyl)-, (3R,4S)- [CAS]	163222-33-1 9001-28-9 9001-27-8 9013-56-3	S	5846966	Hypolipaemic/Antiatherosclerosis	Hypercholesterolaemia
fadolmidine Fadrozole	1H-Inden-5-ol, 2,3-dihydro-3-(1H-imidazol-4-ylmethyl)-, monohydrochloride [CAS]	189353-32-0 102676-47-1	0 ≱	9712874	Analgesic, other	Pain, general
	9,10-Secocholesta-5,7,10(19)-triene- 1,3,25-triol, 26,26,27,27,27-hexafluoro- (1Apha,38,52,7E)- [CAS] 1,3-Propanediol, 2-{2-{2-amino-9H-purin-9- yl)ethyl}-, diacetate (ester)- [CAS]	83805-11-2 104227-87-4	ਰ ਦੇ	03099022	Osteoporosis treatment Antiviral, other	Hyperparathyroidism Infection, gynaecological

API Generic Name	API Chemical Name Propanimidamide, 3-III2- [(aminoiminomethyl)amino]-4-	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
famotidine fampridine	thiazolyljmethyljthioj-N-(aminosulfonyl)- [CAS] 4-pyridinamine	76824-35-6 504-24-5	S	4283408	Antiulcer Neuroprotective	Ulcer, duodenal Spinal cord injury
fandofloxacin Fantofarone	3-Quinolinecarboxylic acid, 6-fluoro-1-(5-fluoro-2-pyridinyl)-1,4-dihydro-7-(4-methyl-164150-85-0 1-piperazinyl)-4-oxo, [CAS]	164150-85-0 164150-89-6 11443 <u>2</u> -13-2	S	5496947	Quinolone antibacterial	Infection, unnary tract
faropenem daloxate	(5R,6S)-6-[1(R)-Hydroxyethyl)-2-[2(R)-tetrahydrofuryl]-2-penem-3-carboxylic acid-5-methyl-2-oxo-1,3-dioxol-4-ylmethyl ester 4-Thia-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid, 6-(1-hydroxyethyl)-7-oxo-3-				Beta-lactam antibiotic	Infection, general
faropenem		122547-49-3	8	410727	Beta-łacłam antibiotic	Infection, ocular
fasidotril	phenylmethyl ester [CAS] 1H-1,4-Diazepine. hexahydro-1-(5-	135038-57-2	<u>G</u>	419327	Antihypertensive, renin system	Hypertension, general
fesudii Fazadinium Bromide	isoquinolinyisuffonyi)- [CAS]	105628-07-7 49564-56-9	<u>a</u>	187371	Neuroprotective	Vasospasm, general
febarbamate Febuprol	2,4,6(1H,3H,5H)-Pyrimidinetrione, 1-[2- [(aminocarbony]oxy]-3-butoxypropy]-5- ethyl-5-phenyl- [CAS]	13246-02-1 3102-00-9	S.	3075983	Psychostimulant	
febuxostat Fedotozine	8	144060-53-7 123618-00-8	Ø,	9209279	Antigout	Нурегитсаетіа
felbamata felbinac		25451-15-4 5728-52-9	ਲ ਜ਼	4868327 /	Anti-inflammatory, topical	Epilepsy, general
fekodipine Felypressin	dronkorophenyl)-1,4-dinydro-2,6-dimethyl-, ethyl methyl ester [CAS]	72509-76-3 56-59-7	S.	4264611	Antihypertensive, other	Hypertension, general

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API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
Fernoxetine		59859-58-4				
Fenbenicillin		1926-48-3				
	[1,1'-Biphenyl]-4-butanoic acid, Gamma-					
fenbufen	oxo-[CAS]	36330-85-5	ട്ട	3784701	Anti-inflammatory	
Fenbutrazate		4378-36-3				
Fencamfamine		1209-98-9				
Fencamine		28947-50-4				
Fenciozic Acid		17969-20-9				
Fendiline		13042-18-7				
Fendosal		53597-27-6				
Fenethviline		3736081				
Fenfluramine		458-24-2				
Fenipentol		583-03-9				
•	Propanoic acid, 2-[4-(4-					
· •	chlorobenzoyl)phenoxy]-2-methyl-, 1-	26129-32-8				
fenolibrate	methylethyl ester [CAS]	49562-28-9			Formulation, modified-release, <=24hr Hyperlipidaemia, general	Hyperlipidaemia, general
	1H-3-Benzazepine-7,8-diol, 6-chloro-					
	2,3,4,5-tetrahydro-1-(4-hydroxyphenyl)-	67227-56-9				
fenoidopam	[CAS]	67227-57-0	ដ	22330	Antihypertensive, other	Hypertension, general
Fenoprofen		31879-05-7				
Fenoterol		13392-18-2				
	10H-Phenothiazine, 10-[[4-(1,3-					
	benzodioxol-5-ymethyl)-1-					
fenoverine	piperazinyl]acetyl]-[CAS]	37561-27-6	Œ	2092639	Antispasmodic	
Fenoxazoline	-	4846-91-7				
Fenoxedil		54063-40-0			•	
Fenozotone		15302-16-6				
Fenpentadiol		15687-18-0				
Fenpiprane		3540-95-2				
Fenpiverinium Bromide		125-60-0				
1		1				
Fenguizone Fenguizone		15686-61-0 20287-37-0				
formatinida		65646 69 c				
ieilienilwe	יופשויים איניים		7	04/942	Anticancer, other	Cancer, breast

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API Generic Name	API Chemical Name	CAS No.	Refe	92	Example of Therapeutic Use	Example of Indication
Fenspiride		5053066		•		
7	Propanamide, N-phenyl-N-[1-(2-					
fentanyl	phenylethyl)-4-piperidinyl]- [CAS]	437-38-7			Formulation, transmucosal, systemic	Anaesthesia, adjunct
Fentiazac		18046-21-4				
Fenticior		97-24-5				
•	1H-Imidazole, 1-[2-(2,4-dichlorophenyl)-2-					
-	[[4-(phenytthio)phenyl]methoxy]ethyl]-	72479-26-6				-
fenticonazole	[CAS]	73151-29-8	2	4221803	Antifungal	Infection, gynaecological
Fentonium Bromide	,	5868064				
		36981-91-6				
ori je con de la contraction d	Benzenemethanol, Alpha-[[(2-hydroxy-1,1- 67704-50-1	67704-50-1 63075-47-8			Logicat sociommeles is a	
ימלומסוויס					ביישונים אינים וויים	
Feprazone		30748-29-9 15708-41-5				
ובפנעוני פסמותונו במפנעופ		P-1+00/C				Resniratory distress evadrome
ferrioxamine B			Š	9426263	Septic shock treatment	adult
Ferrocholinate		1336-80-7				
Ferrous Gluconate		299-29-6				
	Polyglucose sorbitol carboxymethyl ether- coated non-stoichiometric magnetite					
ferumoxytol					Imagino agent	Diagnosis, cancer
	2-((1R)-3-(bis(1-methylethyl)amino)-1-					
	phenytopyl)-4-(hydroxymethyl)Phenyl					
fesotemoline	eser, (ZE)-Z-butertodioate (1:1) (Satt) - ICASI	286930-03-8			Irricolori	Inmutinence
	Benzeneacetic acid. 4-11-hydroxy-4-					
	[4(hydroxydiphenytmethyl)-1-	153439-40-8				
	piperidiny[]buty[]-Alpha,Alpha-dimethyl-,	83799-24-0				
fexofenadine	[CAS]	138452-21-8	3	5375693	Antiallergic, non-asthma	Rhinitis, allergic, seasonal
Fibrostat		•	<u>ড</u>	2132416	Vulnerary	Wound healing
	Spiro(4H-1-benzopyran-4,4'-imidazolidine)-					
fidarestat	2-carboxamide, 6-fluoro-2,3-dihydro-2,5-dioxo- (2S-cis)-, ICASI	136087-85-9	0.	418834	Symptomatic antidiabotic	Neuronathy diabetic
			1	1		incorporation of the corporation

API Generic Name	API Chemical Name	CAS No.	Patent Reference		Example of Therapeutic Use	Example of Indication
	8-Phenyt-3-[4-[(3eR,9bR)-1,3a,4,9b-tetrahydro-9-methoxy[1]benzopyrano[3,4-c]pyrrol-2(3H)-y]buty[pyrazino[2,3'4,5]thieno[3,2-dyth 3H)-dione		- <u></u>			
fiduxosin	A Amondmet 1 and 17 restancemide M.	208993-54-8			Prostate disorders	Benign prostatic hyperplasia
finasteride	(1,1-dimethylethyl)-3-oxo-, (54pha,178)- [CAS] Benzonitrie, 4-(3-(4-fluorophenyl)-2-	98319-26-7	<u></u>	155096	Prostate disorders	Benign prostatic hyperplasia
finrozole	hydroxy-1-(1H-1,2,4-triazol-1-yl)-propyl)- [CAS]	160146-16-7 34161-24-5	<u>а</u> 4	476944	Urological	Urinary retention
Fipexide FK-960	N-(4-Acetyl-1-piperazinyl)-4- fluorobenzamide monohydrate- [CAS]		 OM	9101979	Cognition enhancer	Azheimer's disease
flavoxate	4H-1-Benzopyran-8-carboxylic acid, 3-methyl-4-oxo-2-phenyl-, 2-(1-piperidinyl)ethyl ester [CAS]	15301-69-6 3717-88-2	US 2	2921070	Urological	
fecainide	Berzamide, N-(2-piperidinylmethyl)-2,5-bis(2,2,2-trifluoroethoxy)-,[CAS] 3-0-inolinecarboxvlic acid 6 8-difluoro-1-	54143-55-4 54143-56-5			Formulation, modified-release, <=24hr Fibrillation, atrial	Fibrillation, atrial
fleroxacin Flesinoxan	(2-fluoroethyl)-1,4-ditydro-7,4-methyl-1-piperazinyl)-4-oxo-[CAS]	79680-53-0 79660-72-3 98206-10-1	გ 	4398029	Quinolone antibacterial	Infection, general
fitbanserin	(4-(3-(trifluoromethyl)phenyl)-1- piperazinyl)ethyl- [CAS] Benzoic acid, 2-[[8-(trifluoromethyl)-4-	167933-07-5			Reproductive/gonadal, general	Sexual dysfunction, female
floctafenine	quinoliny(gamino)-, z.3-dinydroxypropyrester [CAS] 5-Oxa-1-azabicyclo(4.2.0)oct-2-ene-2-	23779-99-9	<u></u>	3644368	Analgesic, NSAID	
flomoxef	[[(diffuoromethyl)thio]acetyl]amino}-3-[[[1- [[(d:hydroxyethyl)-1H-tetrazol-5- yl]thio[methyl]-7-methoxy-8-oxo-, (6R-cis)- 92665-00-6 [[CAS]	92823-03-5 99665-00-6		128536	Cephalosporin, injectable	Infection, general

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API Generic Name	API Chemical Name	CAS No.	Ref	Reference	Example of Therapeutic Use	Example of Indication
Flopropione		2295-58-1				•
Florantyrone		519-95-9				
Flosequinan		76568-02-0				
Floxacillin		5250-39-5				
Floxuridine	-	50-91-9				
Fluacizine		30223-48-4				
Fluanisone		1480-19-9				
	Androst-5-en-17-one, 16-fluoro-,					
fluasterone	(16Alpha)- [CAS]	112859-71-9	ᇤ	246650	Cardiovascular	Keratosis
	5'H-Pregna-1,4-dieno[17,16-d]oxazole-					
fluazacort	5,20-dione, 2 1-(acatyloxy) 2-110-0-1 1- hydroxy-2'-methyl-, (118,168)- [CAS]	19888-56-3	2	3461119	Antipruritic/inflamm, non-allergic	
Fluctoronide	•	Ф	•	-		
1		1847-24-1	•			
fluctoxacillin		34214-51-2			Formulation, other	Infection, general
	1H-1,2,4-Triazole-1-ethanol, Alpha-(2,4-diffuomohemyl-Alpha-(1H-1,2,4-triazol-1-					
fuconazole	ylmethyl)-[CAS]	86386-73-4	ᇤ	69596	Antifungal	Infection, dermatological
Flucytosine		2022-85-7				
	9H-Purin-6-amine, 2-fluoro-9-(5-O-	75607-67-9				Cancer, leukaemia, chronic
fludarabine	phosphono-B-D-arabinofuranosyi)- [CAS]	21679-14-1	2	4357324	Anticancer, antimetabolite	lymphocytic
Fludeoxyglucose F18		105851-17-0				
Fludiazepam		3900-31-0				
Fludrocortisone	·	127-31-1				
Flufenamic Acid		330-78-9 957-56-2				
	4H-Imidazo[1,5-a][1,4]benzodiazepine-3-					
	carboxylic acid, 8-fluoro-5,6-dihydro-5-					
flumazenii	methyl-6-oxo-, ethyl ester [CAS]	78755-81-4	읍	27214	Neurological	
Flumecinol		56430-99-0				
Flumequine	1	42835-25-6				
Flumethasone		2135-17-3				-
Flumethiazide		148-56-1				

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API Generic Name	API Chemical Name	CAS No. 30484-77-6	Refe	Reference	Example of Therapeutic Use	Example of Indication
flunarizine	Piperazine, 1-[bis(4-fluorophenyl)methyl]-4-52468-60-7 (3-phenyl-2-propenyl)-,(E)- [CAS] 27848-84-6	52468-60-7 27848-84-6	85	1268710	Antimigraine	
,	Pregna-1,4-diene-3,20-dione, 6-fluoro- 11,21-dihydroxy-16,17-{(1- methylethyldora)biscoxy)-,	,				
	(orgina, 11s, torgina)- [c-k-5] 2H-1,4-Benzodiazepin-2-one, 5-(2- fluorocheny)-1 3-dihydro-1-methyl-7-nitra-	7-57-5955	3	31245/1	Antasthma	Rhinitis, allergic, general
flunitrazepam	[CAS]	1622-62-4	S	3116203	Hypnotic/Sedative	
Flunoxaprofen		66934-18-7				
Fluocinolone Acetonide		67-73-2				
Fluocinonide Fluocortin Butyl		356-12-7 41767-29-7				
Fluocortolone		152-97-6				
Fluorescein Fluoresone		2321-07-5 2924.67-6				
Fluorometholone		426-13-1				
riuorosaian	2,4(1H,3H)-Pyrimidinedione, 5-fluoro-	4776061				
fluorouracil	[CAS]	51-21-8			Formulation, transdermal, enhanced	Keratosis
fluoxetine	Benzenepropanamine, N-methyl-Gamma- [4-(trifluoromethyl)phenoxy]-, (+/-)- [CAS]	54910-89-3 56296-78-7	s S	4314081	Antidepressant	Demession noneral
Fluoxymesterone		76-43-7				
Fluperolone		2119-75-7				
•		69-23-8				
	hyllaminol-3-pyridinyll-,	56995-20-1				
fluprednidene Acetate	ethyl ester [CAS]	75507-68-5 1255-35-2	აგ. -	4481205	Analgesic, other	Pain, post-operative
Fluprednisolone		53-34-9				
riuproduazone		40507-23-1	1			

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API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
Flurandrenolide		1524-88-5				_
Flurazepam		17617-23-1				
•	[1,1'-Biphenyl]-4-acetic acid, 2-fluoro-					
flurbiprofen	Apha-methyl- [CAS]	5104494	S	3793457	Anti-inflammatory	
	Erythromycin, 8-fluoro-mono(ethyl					Infection, respiratory tract,
flurithromycin	butanedioate) (ester)- [CAS]	82730-23-2	읍	56291	Macrolide antibiotic	lower
Flurogestone		2529-45-5				
Flurothyi		333-36-8				
Fluroxene		406-90-6				
Fluspirilene		1841-19-6				
	Propanamide, 2-methyl-N-[4-nitro-3-	13311 84.7	2	V3505EV	Anticoncer homonol	
	Control of the Alberta discourie Colonia	-		106301		
	Oxazona, 5, z-uji 1, 4 joenzouezepin-a(5n.)- one. 10-chloro-11b-(2-fluorophenvi)-					
	2,3,7,115-tetrahydro-7-(2-hydroxyethyl)-					
flutazolam	[cvs]	27060-91-9	ន	3905956	Anxiolytic	
	Androsta-1,4-diene-17-carbothioic acid,					
	6,9-difluoro-11,17-dihydroxy-16-methyl-3-					
	oxo-, S-(fluoromethyl) ester,	80474-14-2				
fluticasone	(6Apha, 118, 16Apha, 17Apha)- [CAS]	90566-53-3			Formulation, inhalable, solution	Asthma
	2H-1,4-Benzodiazepin-2-one, 7-chloro-1-					
1, j	(cyclopropytmethyl)-5-(2-fluorophenyl)-1,3-					
flutoprazepam	dihydro-[CAS]	25967-29-7	<u>ස</u> :	1253368	Anxiolytic	Psychosis, general
	1H-Imidazole, 1-((2-fluoropheny))(4-		-			
fluttimazole	moropheny/phenymeny/-		Ъ	352352	Antrungal	Infection, dermatological
Flutropium Bromide		63516-07-4				
	6-Heptenoic acid, 7-{3-(4-fluorophenyl)-1-					
		93957.55.2				
fluvastatin	(±)-[CAS]		9	114027	Hypolipaemic/Antiatherosclerosis	Hypercholesterolaemia
	1-Pentanone, 5-methoxy-1-[4-					Depression, general,
	(trifluoromethyl)phenyl]-O-(2-	54739-18-3				Obsessive-compulsive
fluvoxamine	aminoethyl)oxime, (E)- [CAS]	61718-82-9	89	1535226	Antidepressant	disorder
Folic Acid		59-30-3	,			
Folinic Acid		58-05-9				
Fomepizole	-	7554-65-6				

Name						
	API Chemical Name	CAS No.	Patent Reference	nt ence	Example of Therapeutic Use	Example of Indication
		18053-31-1 24600-36-0	n S	3661903	Respiratory stimulant	Eczema, general
Fomocaine		144245-52-3 17692-39-6				
		0.47-004				
App	Apha-D-Glucopyranoside, methyl O-2-deoxy-6-O-sulfo-2-(sulfoamino)-Apha-D-glucopyranosyl-(1-4)-O-B-D-glucopyranosyl-(1-4)-O-B-D-glucopyranosyl-(1-4)-O-B-D-glucopyranosyl-(1-4)-O-B-D-B-D-B-D-B-D-B-D-B-D-B-D-B-D-B-D-B					
<u>₹ % ₹</u>						
fondaparinux (Sul	idopyranuronosyl-(1-4)-2-deoxy-2- (sulfoamino)-,6-(hydrogen sulfate) [CAS]	104993-28-4 114870-03-0			Anticoagulant	Thrombosis, venous
oue		2454117		- • •		
-	st-4-ene-3,17-diane, 4-hydroxy-					
formestane (CAS)			<u>ლ</u>	346953	Anticancer, hormonal	Cancer, breast
Formocortal		2825-60-7				
For 12-4	Formamide, N-{2-hydroxy-5-{1-hydroxy-2- [[2-(4-methoxyphenyl)-1- methologymaminolethylphonyl. (P. D.)	43220 80.7				
formoterol (+-)			- -	1415256	Antiasthma	Asthma
Carl	Carbamic acid, ((15,2R)-3-(((4- aminophenyl)sulfonyl)(2- methypropyl)amino)-1-(phenylmethyl)-2-					
(ph. fosamprenavir 3-fu	(phosphonooxy)propyi)- C-((3S)-tetrahydro- 3-furanyl ester, [CAS]	226700-81-8			Antiviral, anti-HIV	Infection HIV/AIDS
		34156-56-4 4428-95-9				
	oxide, trisodium salt [CAS]	_	8 4	4839445	Antiviral, other	Infection, cytomegalovirus
Fosfestrol 2.4	2,4-difluoro-Alpha-Alpha-bis(1H-1,2,4- triazol-1-yimethyl)benzyl alcohol, dihadrona ahosahara (setas)	522-40-7				
fosfluconazole		194798-83-9			Antifungal	Infection, fungal, general
Pho fosfomycin (cis)-	Phosphonic acid, (3-methyloxiranyl)-, (2R- [23155-02-4 cis)- [CAS]		GB 7.	1223923	Antibiotic, other	Infection, general

API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
fosfornycin trometamol		78964-85-9	<u>a</u>	27597	Antibiotic, other	Infection, urinary tract
Fosfosal	-[[[2-methyl-1-(1-				•	
	oxopropoxy)propoxyj(4- phenyibutyl)phosphinyljacetylj-, 22mbs 40 t. fCAS1	88889-14-9	a	93806	Antihunadanciva renin custem	Hypertension general
ingenegati				3		Epilepsy, generalized, tonic-
fosphenytoin	[(phosphonooxy)methyl]- [CAS] Phosphonic acid, [1-[[(2-	93390-81-9	ဌ	4260769	Antiepileptic	clonic
fotemustine	chloroethyl)nitrosoamino]carbonyl]amino]e thyl]-, diethyl ester [CAS]	92118-27-9	8	117959	Anticancer, alkylating	Canoar, melanoma
Fropenem	1H Catharda & cathovamida 234 9.	106560-14-9	•			
frovatriptan	_	:	8	9922730	Antimigraine	Migraine
Fructose Fructose-1,6- diphosphate		57-48-7 488-69-7				
i	2(1H)-Pyrimidinone, 4-amino-5-fluoro-1-(2- (hydroxymethy)-1,3-oxathiolan-5-y)- (4R)					
FIC	1 9 Canima C leibonand 6				Antviral, anti-HIV	Intection, HIV/AIDS
FTY-720	is S	162359-56-0	Ş	9408943	Immunosuppressant	Transplant rejection, general
fudosteine	Alanine, 3-((3-hydroxypropyl)thio)- [CAS]	13189-98-5	ജ	5047428	Antitussive	Cough .
fulvestrant	Estra-1,3,5(10)-triene-3,17-diol, 7-19- [(4,4,5,5,5-pentafluoropentyl)sulfinyllnonyll- (7Apha,173)- [CAS] 2,4,6,8-Decaletreenedioic acid, mono[5- methoxy-4-[2-methyl-3-(3-methyl-2-	129453-61-8	G .	346014	Anticancer, hormonal	Cancer, breast
fumagiline	ester, j.ər- [3Apha,4Apha(2R*,3R*),5ß,6ß(all-E)]I- [CAS]	23110-15-8			Protozoacide	Infection, GI tract

API Generic Name	API Chemical Name		Patent Refere	92	Example of Therapeutic Use	Example of Indication
Furaliadone Furalizadone		23110-15-8 139-91-3				
Furazabol Furazolidone Furazollum Chloride Furonazide		67-45-8 5118-17-2 3460-67-1				
fursultiamine Fursultiamine Furtrethonium	Benzoic acid, 5-(aminosutfonyl)-4-chloro-2- [(2-furanylmethyl)amino]- [CAS]	54-31-9 804-30-8 7618-86-2 6/3/6990			Formulation, modified-release, other	Hypertension, general
G1, YM BioSciences G25	1-(5-bramofur-2-yl)-2-bramo-2-nitroethene		8	9804252	Antifungal Antimalarial	Infection, gynaecological Infection, malaria
GABA-A Apha5 inverse agonist, Mer			Ş.	0206285	Cognition enhancer	Alzheimer's disease
gabapentin	Cycohexaneacetic acid, 1-(aminomethyl)- [CAS]	60142-96-3	S	4152326	Antiepileptic	Epilepsy, general
gabexate		39492-01-8 56974-61-9	8	3751447	Gl inflammatory/bowel disorders	Pancreatits
gaboxadol Gadobenate	Isoxazoloj5,4-cjpyrdin-3(ZH)-one, 4,5,6,7- tetrahydro- [CAS]	64603-91-4 127000-20-8	8	1125288	Hypnotic/Sedative	Sleep disorder, general
Dimegiumine Gadobutroi Gadodiamide		138071-82-6 131410-48-5 80620 63 7				
Gadopentetic Acid Gadoteridol Gadoversetamide Gadoxetic Acid		120066-54-8 131069-91-5 135326-11-3			·	

	·		Patent			
API Generic Name	API Chemical Name (4aS,6R,8aS)-6-Hydroxy-3-methoxy-11- methyl-5,6,9,10,11,12-hexahydro-4aH-	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
galantamine					Formulation, modified-release, other	Alzheimer's disease
Galanthamine		357-70-0				
galarubicin Gallamine Triethiodide	hexahydro-2,5,12-trihydroxy-7-methoxy-6,11-dioxo-2-naphthacenyl}-2-oxoethyl ester, [CAS]	140637-82-7 140637-86-1 65-29-2	<u> </u>	424899	Anticancer, antibiotic	Cancer, breast
Gallic Acid	4H-Pyran-4-one, 3-hydroxy-2-methyl-,	149-91-7				
gallium maltolate	Vouhion times				Anticancer, other	Cancer, myeloma
gallium nitrate		13494-90-1	<u>8</u>	4529593	Osteoporosis treatment	Hypercalcaemia of malignancy
galtopamil r-Aminobutyric Acid	dimethoxyphenyl)ethylmethylaminolpropyl]-3,4,5-trimethoxy-Athha-(1-methylethyl)- [CAS]	16662-47-8 56-12-2 38308-23-3	8	1367677	Antanginal	Angina, general
	6H-Purin-Gone, 2-amino-1,9-dihydro-9-[[2- hydroxy-1-(hydroxymethyl)ethoxy]methyl- [CAS]		<u> </u>	49072	Antiviral, other	Infection, cytomegalovirus
ganirelix	(N-Ac-D-Nai, D-pCI-Phe, D-Pai, D- hArg(Ei) 2, hArg(Ei) 2, D-Alaj GnRH- [CAS]	124904-93-4	9	312052	Releasing hormones	Infertility, female
ganstgmine	Carbanic acid, (2-ethylphenyl)-, (3aS,8aS)- 1,2,3,3a,8,8a-hexahydro-1,3a,8- trimethylpyrrolo[2,3-b]indol-5-yl ester,	223585-99-7	9	1023297	Cognition enhancer	Atheimer's disease

API Generic Name	API Chemical Name 1-Piperazineacetic acid, 4-[[(5R)-3-[4-	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
gantofiban	[imino[(methoxycarbony)amino]methyl]ph enylf-2-oxo-5-oxazolidiny]methylf-, ethylester [CAS]	183547-57-1	<u>a</u>	741133	Antithrombotic	Thrombosis, general
garenoxacin	3-Quinolinecarboxylic acid, 1-cyclopropyl-8 (diffuoromethoxy)-7-((1R)-2,3-dihydro-1-methyl-1H-isoindol-5-yl)-1,4-dihydro-4-oxomonomethanesulfonate [CAS]	223652-82-2			Quinolone antibacterial	Infection, respiratory tract, lower
gamocestim	5-73-macrophage inflammatory protein 2Alpha (human gene gro2)- [CAS]	246861-96-1			Radio/chemoprotective	Chemotherapy-induced injury, bone marrow, neutropenia
gatifoxacin Gefarmate	3-Quinolinecarboxylic acid, 1-cyclopropyl-6 flucro-1,4-dihydro-8-methoxy-7-(3-methyl- 1-piperazinyl)-4-oxo-, (+/-)- [CAS]	112811-59-3 51-77-4	<u> </u>	230295	Quinolone antibacterial	Infection, respiratory tract, general
geftinib	4-Quinazolinamine, N-(3-chloro 4- fluorophenyl)-7-methoxy-6-(3-(4- morpholinyl)propoxy) [CAS]	184475-35-2	No.	9633980	Anticancer, other	Cancer, lung, non-small cell
gemcabene	o,o-oxyois(z,z-dimemyinexanoaie)	209789-08-2			Hypolipaemic/Antiatherosclerosis	Hyperlipidaemia, general
gemcitabine	Cytidine, 2'-deoxy-2', 2'-difluoro-, [CAS]	122111-03-9 95058-81-4	89	2136425	Anticancer, antimetabolite	Cancer, pancreatic
gemeprost	Prosta-2,13-dien-1-oic acid, 11,15- dihydroxy-16,16-dimethyl-9-oxo-,methyl ester, (2E,11Alpha,13E,15R)- [CAS]	64318-79-2	89	1540427	Prostaglandin	
gemfibrozii	Pentanoic acd, 5-(2,5-dimethylphenoxy)- 2,2-dimethyl- [CAS]	25812-30-0	झ	3674836	Hypolipaemic/Antiatherosclerosis	Hyperlipidaemia, general
genifloxacin gentamich Gentlan Violet Gentlopicrin	1.b-Naphtryndine-3-carboxylic acd, 7-(3- (aminomethyl)-4-(methoxymino)-1- pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4- dihydro-4-oxo- [CAS] Gentamicin [CAS]	175463-14-6 1403-66-3 548-62-9 20831-76-9	8	5869670	Quinolone antibacterial Formulation, implant	Infection, respiratory tract, general Infection, general

API Generic Name Gentisic Acid Gepefrine	API Chemical Name	CAS No. 490-79-9 18840-47-6	Patent Reference		Example of Therapeutic Use	Example of Indication
gepirone	2,6-Piperidinedione, 4,4-dimethyl-1-[4-[4- (2-pyrimidinyl)-1-piperazinyljbutyl]- [CAS]			<u> </u>	Formulation, modified-release, other	Depression, general
gestodene	18,19-Dinorpregna-4,15-dien-20-yn-3-one, 109852-02-0 13-ethyl-17-hydroxy-, (17Alpha)- [CAS] 60282-87-3		GB 1569135		Formulation, fixed-dose combinations	Contraceptive, female
gestodene + ethinylest	13, 17-diol (17Apha) mid with 19-Norpegna-1, 55(10)-trien-20-yne-13,17-diol (17Apha)			<u> </u>	Formulation, modified-release, >24hr	Contraceptive, female
Gestonorone Caproate Gestrinone		1253-28-7 16320-04-0 504-84-4				
y-Hydroxybutyrate	(4S)-11-{(E)-{(1,1-dimethyl)-4-ethyl-4-dimethylethoxy)iminojmethyl]-4-ethyl-4-hydroxy-1-12-dihydro-14H-pyrano{3',4'6,7 jindolizino{1,2-b}quinoline-3.14(4H-dioxe	- P			,	
ginatecan Giractide Gitoxin		282618-32-7 24870-04-0 4562-36-1	• 		Anticancer, other	Cancer, brain
GL-406349	N,N-Bis(2-[N-[2-(NZ,NS-dimetryt-DL- lysylamino)-ethyl/carbamoyl/1H-indol-6-yl]- 1H-indole-2,5-dicarboxamide			⊻	Antfungal	Infection, fungal, general
Glafenine glatiramer	L-Glutamic acid, polymer with L-alanine, L- lysine and L-tyrosine, [CAS]	3820-67-5 147245-92-9 28704-27-0	WO 5800808		Multiple sclerosis treatment	Multiple sclerosis, relapsing- remitting
Giibornuride gicazide	Benzenesulfonamide, N- [[(hexahydrocydopenta[c]pymol-2(1H)- yl)amino)carbonylj-4-methyl-[CAS]	26944-48-9 21187-98-4	GB 1153982		Antidiabetic	Diabetes, Type II

API Generic Name	API Chemical Name 1H-Pyrrole-1-carboxamide, 3-ethyl-2,5-	CAS No.	Patent Reference	ance	Example of Therapeutic Use	Example of Indication
glimepinde	methylcyclohexyl)aminojcarbonyljaminojsu fronyljphenyljethylj-2-oxo- [CAS]	93479-97-1	- <u>8</u>	9303724	Antidiabetic	Diabetes, Type II
y-Linotenic Acid		506-26-3				
gipizide	Pyrazinecarboxamide, N-[2-[4- III(cyclohexylamino)carbonyljamino]sulfon yljphenyljethylj-5-methyl- [CAS]	29094-61-9	S S	3669966	Antidiabetic	
gliquidone	Benzenesulfonamide, N- [(cyclohexylamino)carbonyl] 4-[2-(3,4- dihydro-7-methoxy-4,4-dimethyl-1,3-dioxo- 2(1H)-isoquinolinyl)ethyl]- [CAS]	33342-05-1	8	1277847	Antidiabetic	Diabetes, general
glisolamide	3-tsoxazotecarboxamide, N-{2-{4- III(cyclohexylamino)carbonyljamino sulfon yljphenyljethyl}-5-methyl- [CAS]	24477-37-0			Antidiabetic	Diabetes, general
Glisoxepid		25046-79-1				
Glucametacin		52443-21-7				
Glucoheptonic Acid		87-74-1	•			
Gluconic Acid		526-95-4				
glucosamine	D-Glucose, 2-amino-2-deoxy-, [CAS]	29031-19-4 3416-24-8	뿔	1953689	Antiarthritic, other	Arthritis, osteo
Glucosulfone		554-18-7				
glufosfamide	ß-D-Glucopyranose, 1-(N.N'-bis(2- chloroethyl)phosphorodiamidate)- [CAS]	132682-98-5	 	3835772	Anticancer, alkylating	Cancer, general
Glutamic Acid		96-86-0				
Giutaraldehyde		111-30-8				•
Glutethimide		11-21-4				
Glyburide		10238-21-8				
Glybuthiazol(e)		535-65-9				
Glybuzole		1492-02-0	<u>.</u>			
Glycerol		56-81-5				
Glycocyamine		352-97-6				
Glycol Salicylate		87-28-5				
Glyconiazide		3091-/4-5	1			

lame te	API Chemical Name	CAS No. 596-51-0	Patent Referen	Patent Reference	Example of Therapeutic Use	Example of Indication
	N-acety/glucosaminyt-N-acety/muramyl dipeptide	451-71-8 339-44-6 1228-19-9 12244-57-4			Anti-infective, other	Infection, general
Gold Sodium Thiosulfate goserelin	Luteinizing hormone-releasing factor (pig), 6-[O-(1,1-dimethylethyl)-D-serine]-10-deglycinamide, 2-(aminocarbonyl)hydrazide [CAS]	65807-02-5	S S	4100274	Releasing hormones	Cancer, prostate
GP11485 GP15693	L-Proline, 1-(3,3-dimethyl-1,2-dioxopentyl)-, 3-(3-pyridinyl)propyl ester [CAS] 2-(Phosphonomethyl)pentanedioic acid	186452-09-5	<u>s</u>	5672592	Antparkinsonian Analgesic, other	Parkinson's disease Pain, neuropathic
Graftskin granisetron Grepafloxacín	1H-Indazole-3-carboxamide, 1-methyl-N- (9-methyl-8-azabicydo(3.3.1)non-3-yl)-, endo- [CAS]	107007-99-8 109889-09-0 119914-60-2	g 7	200444	Antiemetic	Chemotherapy-induced nausea and vomiting
griseofulvin Gualacol Gualabate	Spiro[benzofuran-2(3H),1'-[2]cyclohexane]- 3,4'-dione, 7-chloro-2',4,6-trimeth-oxy- 6'methyl-, (1'S-trans)- [CAS]	126-07-8 90-05-1 852-42-6			Fomulation, dermal, topical	infection, dematological
ne In Iine	4H-1,3-Benzodioxin-4-one, 2-(2- methoxyphenoxy)-2-methyl- [CAS]	489-84-9 93-14-1 81674-79-5 16545-11-2	8	2098201	Anti-inflammatory	

			Patent	1		
API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
Guanabenz		5051-62-7			1	
Guanadrel		40580-59-4				
Guanethidine		55-65-2				
Guanfacine		29110-47-2				
Guanoxabenz		24047-25-4				
Guanoxan		2165-19-7				
gugulipid	Pregna-4,17(20)-diene-3,16-dione [CAS]	95975-55-6	81	447706	Hypolipaemic/Antiatherosclerosis	
Gusperimus		104317-84-2				
	(Z)-2-Chlorofumaric acid 1-{3-{-16,7-} dimethoxy-2(S)-methyl-1(R)-(3,4,5-		·-			
	trimethoxybenzyl)-1,2,3,4- tetrahydroisoouinolinium-2-yllorobyll					
GW-280430A					Muscle relaxant	Anaesthesia, adjunct
	[2S,3S,5R]-2-[3,5-difluorophenyl]-3,5- dimethyl-2-morpholinol					
GW-320659					Anorectic/Antiobesity	Obesity
	(+)-R-2-(3-[N-(2- Renzol 1 Arlioxandmethylaminol-1-					
GYKI-16084	propylj-3(2H)-pyridazinone hydrochloride		2	6194411	Prostate disorders	Benign prostatic hyperplasia
Hachimycin		1394-02-1				
Halazepam		23092-17-3				
Halcinonide	<u>.</u>	3093-35-4				
	Pregna-1,4-diene-3,20-dione, 21-chloro-6,9-difluoro-11-hydroxy-16-methyl-17-(1-	66852,54.8	g	4610021	Antheoriseis	Pontiscie
Harocelasor	O Deposition of the state of th			700		
halofantrine	Apha-[2-(dibutylamino)ethyl]-6- (trifluoromethyl)- [CAS]	36167-63-2 697 56- 53-2	<u>a</u> .	138374	Antimalarial	Infection, malaria
	Pregna-1,4-diene-3,20-dione, 2-chloro-6,9- difluoro-11,17,21-trihydroxy-16-methyl-, se Alaba, 478, 46 haba, 17AS1	8,08,08,08	g	4076737	A cincula amangalistic action	
naiometasone		JUNE 3-06-0		20.02		
Haloperidol		52-86-8				
Halopredone		57781-14-3		•		

			Patent		
API Generic Name	API Chemical Name	CAS No.	Reference	Example of Therapeutic Use	Example of Indication
Haloprogin		777-11-7		•	•
Halopropane		679-84-5			
Halothane		151-67-7			
Haloxazolam		59128-97-1			
	2(R)-Acetamido-N-benzyl-3- methoxypropionamide				
harkoseride	•		WO 9733861	Antiepileptic	Epilepsy, general
	16Apha-Bromo-36-hydroxy-5Apha- androstane-17-one				
HE-2000				Antiviral, anti-HIV	Infection, HIV/AIDS
Healos			WO 9714376	Musculoskeletal	Regeneration, bone
Hematoporphyrin		14459-29-1			,
Hepronicate:		7237-81-2			
Heptabarbital		509-86-4		•	
Heptaminol		372-66-7			
Hetacillin		3511-16-8	······································		•
Hetastarch		9004-62-0	~		
Hexachlorophene	:	70-30-4			
Hexadimethrine		28728-55-4			
Bromide					
Hexafluorenium		317-52-2			_
Bromide			,		
Hexamethonium		60-26-4			
Hexamidine		3811-75-4			
Hexapropymate		358-52-1			•
Hexedine		5980-31-4			
Hexestrol		84-16-2			
Hexestrol Bis(β-		2691-45-4			
diethylaminoethyl ether)					
Hexethal		144-00-3			
Hexetidine		141-94-6			
Hexobarbital		56-29-1			

			Datant		
			raicht	7	Example of Indication
tame	API Chemical Name		Kererence	Example of Inerapeutic Use	Example of mucanon
Hexobendine		54-03-5			
Hexocyclium Methyl		115-63-9			
Sulfate					
Hexoprenaline					
Hextend	Hextend [CAS]	235746-51-7	US 5407428	Plasma substitute	Surgery adjunct
Hexylcaine		532-76-3		,	
HF-0299	11b-hydroxy androstenedione		· · · · · · · · · · · · · · · · · · ·	Osteoporosis treatment	Osteoporosis
HGP-2	Benzaneacetic acid, 4-{2-hydroxy-3-{(1-methylethyl)aminolpropoxyl-, 2-tricyclo[3.3.1.13,7]dec-1-ylethyl ester, (2Z)-2-butanedioate (1:1) (satt) [CAS]	121009-31-2		Antiglaucoma	Glaucoma
				l .	
	8-Azoniabicyclo[3.2.1]octane, 3-(3-ethoxy-				
WGP-6A	(3-endo). methyl sulfate [CAS]	113932-41-5		Antiepileptic	Epilepsy, general
hidrosmin	Hydrosmin- ICAS)	120250-44-4	•	Vasoprotective systemic	
	histoming	1	CD 0403460	Colored Control of Con	omorphisms
nsamine				Anticanoer, immunological	Carton, metanoma
Histapyrrodine		493-80-1		-	
	Luteinizing homone-releasing factor (pig),				
histrelin	C-prolinamide)-10-deglycinamide-[CAS]	76712-82-8	EP 217659	Releasing hormones	Precocious puberty
HM-101	HM 101 [CAS]	217311-70-1		Osteoporosis treatment	Osteoporosis
	(E)-4-{2-{2-{p- methoxybenzenesulfonamide)- phomographymeteling (pride)		=1		
HMN-214	ליו אין וייין אַנְאָן וּייִין אַנְאָן אַניין אַנְאָן אַניין אַנְאָן אַניין אַנְאָן אַניין אַנּאָן אַניין אַנּא			Anticancer, other	Cancer, general
Homatropine		87-00-3	•		
Homocamfin		535-86-4			
Homochlorcyclizine		848-53-3			
Hopantenic Acid		18679-90-8			
	Gycinamide, N-acetyl-L-norleucyl-L- glutaminyl-L-histidyl-D-phenylalanyl-L-				
НР-228	arginyl-D-tryptophyl- [CAS]	172617-89-9	EP 759770	Analgesic, other	Pain, post-operative

API Generic Name	API Chemical Name		Patent Reference	Example of Therapeutic Use	Example of Indication
		102518-79-6		;	
	Hyaluronic acid [CAS]	9004-61-9		Formulation, other	Kestenosis
Hycanthone		3105-97-3			
Hydnocarpic Acid		458-67-6			
Hydralazine		86-54-4		•	
Hydrastine		118-08-1			
Hydrastinine		6592-85-4			
Hydrochlorothiazide		58-93-5		•	
hydrocodone	Mothuran-6-one, 4,3-epoxy-3-riyuloxy-17-toc-59-3 methyl-,(5Alpha)- [CAS]	125-29-1		Formulation, modified-release, other	Pain, general
Hydrocortamate		76-47-1			
		•			
	Pregn-4-ene-3,20-dione, 21-(acetyloxy)-11+74050-20-7	74050-20-7	DE 2826257	, Dermatological	Unspecified
пушосонизоне					
	Pregn-4-ene-5, co-anone, 111 yeu cy-17-17 (118)-				
hydrocortisone butyrate propio	[CAS]	72590-77-3	DE 2910899	Antipruritic/Inflamm, altergic	
Hydroflumethiazide		135-09-1			
	Morphinan-6-one,4,5-epoxy-3-hydroxy-17-methyl-,(5Alpha)-, mixt with acetamide, N-(4-hydroxyphenyl)-, mixt with morphinan-6-one,17-(cyclopropylmethyl)-4,5-epoxy-3,14-dihydroxy-, (5Alpha)-	103-90-2 16590-41-3			
hydromarphone		466-99-9		Formulation, fixed-dose combinations	Pain, general
Hydroquinidine		1435-55-8			
Hydroquinine		522-66-7	••••		-
Hydroquinone		123-31-9			
Hydroxocobalamin		13422-51-0			
Hydroxyamphetamine		1518-86-1			
Hydroxychioroguine	-	53-10-1	- , -, -, -		
Hydroxypethidine		468-56-4			
Hydroxyphenamate		50-19-1			

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API Generic Name	API Chemical Name		Reference	Example of Therapeutic Use	Example of Indication
Hydroxypropyl Cellulose		9004-64-2		 	
Hydroxystilbamidine		495-99-8	 .	 	
Hydroxytetracaine		490-98-2		 	
Hydroxyzine		68-88-2			
Hylan G-F 20				 	
Hymecromone		90-33-5		 ma Valenti	
	benzeneacetic acid, Alpha(hydroxymethyl)-, 8-methyl-8-azabicydo [3.2.1.]oct-3-yl				
hyoscyamine		101-31-5	-,, <u>-</u> -	 Formulation, oral, orally-disintegrating	Ulcer, Gl, general
	Phenanthro[1,10,9,8-opqra]perylene-7,14-dione, 1,3,4,6,8,13-hexahydroxy-10,11-				
hypericin	dimethyl- [CAS]	548-04-9		 Anticancer, other	Cancer, brain
IACFT	•	180468-34-2			
ibandronic acid	Phosphonic acd, [1-hydroxy-3- (methypentylamino)propylidene] bis- [CAS]	114084-78-5	EP 252504	 Osteoporosis treatment	Hypercalcaemia of malignancy
	Propanoic acid, 2-methyl-, 4-[2- (methylaminolethyl-1,2-chenylene aster-				
ibopamine	[CAS]	66195-31-1	GB 1551661	Cardiostimulant	Heart failure
	Propanoic acid, 2-metrył, 4-[2- (metrylamino)ethylj-1,2-phenylene ester-	, , , ,	·		1
Dopamine		20132-31-1 206484 62 7		 romuration, mucosal, topical	Suigery adjund
IDITUMOMAD FIUXERAN	Phosphonic acid, II4-II(4-bromo-2-	1-00-101007	·		
brolipim	cyanophenyl)aminojcarbonyljphenyljmethy I.)., diethyl ester [CAS]	133208-93-2	EP 402033	 Hypolipaemic/Antiatherosclerosis	Hypertriglyceridaemia
the editor.	1-Propanone, 2-methyl-1-{2-<1- methylethyl)pyrazolo[1,5-a]pyridin-3-yl}- iCASi	50847-11-5	FD 215438	 Antischma	Achma
ac					
	Benzeneacetic acid, Alpha-methyl-4-(2- methylpropyl)-, 2-pyridinylmethyl ester				
ibuprofen picanol	[CAS]	64622-45-3	DE 2658610	Antipruritic/Inflamm, non-allergic	Eczema, contact

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API Generic Name	API Chemical Name Benzeneacetic acid Alpha-methyl 4-72-	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
ibuprofen		15687-27-1			Formulation, modified-release, other	Inflammation, general
Ibuproxam		53648-05-8		_ -		
	namide, N-{4-{4- nino}-1-hydroxybutyl]phenyl]-				•	
ibutilide	. (+/-). [CAS]	122647-32-9		60239458	Antiarrhythmic	Fibrillation, atrial
ICA-17043			ട്ട	6288122	Antisickling	Anaemia, sickle cell
kodextrin	Dextrin- [CAS]	9004-53-9			Urological	Renal failure
	7-{(3-	58857-92-9				Cancer, leukaemia, acute
idarubicin	6,9,11-trihydroxy-, (7S-cis)- [CAS]		<u>`</u>	4471052	Anticancer, antibiotic	lymphocytic
Idazoxan		79944-58-4		-		
	2-(2,3-dihydro-2-(4-hydroxy-3-methoxyphenyl)-3-(hydroxymethyl)-1,4-benzodioxin-6-yl)-2,3-dihydro-3,5,7-trhydroxy-4H-1-benzopyran-4-one					
MB-1016		134499-06-2	ᅄ	209038	Anticancer, hormonal	Cancer, ovarian
enonedebi	2,5-Cyclohexediene-1,4-dione, 2-(10-hydroxydecyl)-5,6-dimethoxy-3-methyl-[CAS]	58186-27-9	<u>a</u>	58057	Neuroprotective	Ischaemia, cerebral
	enoic acid, 3-[[(1,1- hy- hy- H,7R,8aS,9S,10aR,12aS,12bR,13S 1-7,12a-bis(acetyloxy)-13- syloxy)- 8,8a,9,10,10a,12,12a,12b,13- ahydro-9-hydroxy-5,8a,14,14- ethyl-2,8-dioxo-6,13e-methano- oxeto [2",3",5",6"] benzo(1,2:4,5] eca [1,2-d] dioxyl-4-yl ester, 2R,3S)					·
IDN-5109	[CAS]		S	5264591	Anticancer, other	Cancer, colorectal
ldoxifene		116057-75-1				

API Generic Name	API Chemical Name	CAS No.	Patent Referen	Patent Reference	Example of Therapeutic Use	Example of Indication
idraparinux	Alpha-D-Glucopynanoside, methyl O-2,3,4-tri-O-methyl-6-O-sulfo-Alpha-D-glucopynanosyl-(1-4)-O-2,3-di-O-methyl-8-sulfo-Alpha-D-glucopynanosyl-(1-4)-O-2,3,6-tri-O-methyl-Alpha-L-idopynanosyl-(1-4)-O-2,3-di-O-methyl-Alpha-L-idopynanuronosyl-(1-4)-tris(hydrogen sulfate) nonasodium salt [CAS]	149920-56-9	AU	698456	Antithrombotic	Thrombosis, venous
idrocilamide	2-Propenamide, N-(2-hydroxyethyl)-3- phenyl- [CAS]	6961-46-2	S	3659014	Anti-inflammatory, topical	
ifenprodil	(7)-2-(4-benzyl piperidino)-1-p- hydroxyphenylpropanol tartrate	23210-58-4 23210-56-2	. <u>s</u>	3509164	Neuroprotective	
ifosfamide	2H-1,3,2-Oxazaphosphorin-2-amine, N,3-bis(2-chloroethyl)tetrahydro-,2-oxide [CAS] 3778-73-2	3778-73-2	S	3732340	Anticancer, alkylating	Cancer, lung, general
iguratimod		123663-49-0	Ä	3834204	Antiarthritic, other	Arthritis, rheumatoid
ilaprazole	1H-Benzimidazole, 2-(((4-methoxy-3-methyl-2-pyridinyl) methyl)sulfinyl)-5-(1H-pyrrot-1-yl)- [CAS]	172152-36-2	Sn	5703097	Antiulear	Ulcer, Gl, general
ilomastat	Butanediamide, N4-hydroxy-N1-(1-(1H- indol-3-yfmethyl)-2-(methylamino)-2- oxoethyl)-2-(2-methylpropyl)-, (S-(R*, S*))- [CAS]	142880-36-2	Sn	5892112	COPD treatment	Emphysema, smoking-related
iloperidone	Ethanone, 1-{4-{3-{4-(6-fluoro-1,2-benzisoxazol-3-yl}-1-piperidinyl]propoxy}-3-methoxyphenyl}-[CAS]	133454-47-4	S .	5776963	Neuroleptic	Schizophrenia
iloprost trometamol	Pentanoic acid, 5-(hexahydro-5-hydroxy-4- (3-hydroxy-4-methyl-1-octen-6-ynyl)-2(1H)- pentalenylidene]- [CAS] 1Alpha,25-Hydroxy-16-yne vitamin D3	78919-13-8	w B	3417638	Prostaglandin Anticancer, other	Peripheral vascular disease Cancer, general

API Generic Name	API Chemical Name 4-((Methyl-1-piperazinyl)methyl)-N-[4-	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
imatinib	metryr->-[y-t-y-ynatryr]-z- pyrimidinyl]amino]-phenyl]benzamide methanesuifonate	152459-95-5	S	5521184	Anticancer, other	Cancer, leukaemia, chronic myelogenous
imidapril		89371-37-9 89396-94-1	<u>a</u>	95163	Anthypertensive, renin system, Musculosketetal	Hypertension, general, Cachexia
imidazole salicylate	Benzoic acid, 2-hydroxy-, compd. with 1H- imidazole (1:1) [CAS]	36364-49-5	S	4329340	Anti-inflammatory	Pain, general
imipenem	1-Azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid, 6-(1-hydroxyethyl)-3-[[2- [(iminomethyl)aminojethyl]thio]-7-oxo-, [5R,74431-23-5 [5Apha,6Apha(R*)]]- [CAS]		89	1570990	Beta-lactam antibiotic	Infection, general
Imipramine N-Oxide imiquimod	1H-Imidazo[4,5-c]quinolin-4-amine, 1-(2- methytpropyl)- [CAS]	50-49-7 6829-98-7 99011-02-6 318-23-0	Ë	145340	Antiviral, other	Infection, human papilloma virus
implitabide Improsulfan Inapertsone	Benzeneacetamide, Atpha-cyclopentyl-4- ((2,4-dimethyl-9H-pyrido(2,3-b)indol-9- yl)methyl)-N-((1R)-2-hydroxy-1- phenyiethyl)- (AtphaS)- (CAS)	4 7 4	<u>a</u>	705831	Hypolipaemic/Antiatherosclerosis	Atherosclerosis
incadronate Incadronic Acid	Phosphonic acid, [(cycloheptylamino)methylene]bis-, [CAS]	138330-18-4 124351-85-5 63758-79-2			Musculoskeletal	Hypercalcaemia of malignancy
Indanazoline Indapamide Indecainide	4-chloro-N-(2-methylindolin-1-yl)-3- sulfamoylbenzamide		99	1203691	Antihypertensive, diuretic	Hypertension, general

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API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
indeloxazine		65043-22-3	ᆿ	52083773	Cognition enhancer	Alzheimer's disease
Indeloxazine		65043-22-3				***************************************
indenolol	2-Propanol, 1-[1H-inden-4(or 7)-yloxy]-3- [(1-methylethyl)amino]- [CAS]	30190-87-5 60607-68-3 68906-88-7	8	1290343	Antihypertensive, adrenergic	
	Denythro-Pentonamide, 2,3,5-trideoxy-N- (2,3-dihydro-2-hydroxy-1H-inden-1-yl)-5-(2- (((1,1-dimethylethyl)amino)carbonyl)-4-(3-					
indinavír	(phenymethyl), [1S-[1Apha(R"),2Apha]]-, 150378-17-9 [CAS]	150378-17-9 157810-81-6	G	0541168	Antiviral, anti-HIV	Infection, HIV/AIDS
nolqibni	Acetamide, N-methyt-N-(3-(3-(2- thienytcarbonyl)pyrazolo(1,5-a) pyrimidin-7: yl)phenyl)- [CAS]	325715-02-4	ಜ	6399621	Hypnotic/Sedative	Insomnia
indisetron	1H-Indazole-3-carboxamide, N-(3,9- dimethyl-3,9-diazabicyclo(3.3.1)non-7-yl)-, diendo-[CAS]	160472-97-9			Antiemetic	Nausea and vomiting, general
indisulam	1,4-Benzenedisulfonamide, N-(3-chloro- 1H-indol-7-yl)- [CAS]	165668-41-7			Anticancer, other	Cancer, lung, non-small cell
Indobufen		63610-08-2 3500-32-4				
Indocyanine Green		70-220				
indometacin	1H-Indole-3-acetic acid, 1-(4- chlorobenzoyl)-5-methoxy-2-methyl- [CAS] 53-86-1	53-86-1			Formulation, modified-release, other	Inflammation, general
Indoprofen	Entholic Collections of Marketine	31842-01-0				
indoramin	piperidinylj- [CAS]		89	1218570	Antihypertensive, adrenergic	
Inducterm			ട്ട	5993810	Labour inducer	Labour, induction
Infliximab		170277-31-3				
Inosine Pranobex		36703-88-5 87.80-8				
Inositol Niacinate		6556112				
lobenguane		80663-95-2 3115057				
IODENZAMIC ACIO		10001				

API Generic Name	API Chemical Name	CAS No.	Patent Reference	Example of Therapeutic Use	Example of Indication
locarmic Acid		10397-75-8			
loceramic Acid		440-58-4			
iodine	lodine [CAS]	7553-56-2		Formulation, oral, other	Fibrocystic breast disorder
lodipamide		606-17-7			
lodixanol		92339-11-2		,	
Iodoalphionic Acid	5-Chlore-7-iodo-8-auinalinal	5/7-91-3		:	
iodochlorhydroxyquin	•	130-26-7		Cognition enhancer	Alzheimer's disease
lodoform		75-47-8			
lodopyracet	•	300-37-8			
lodopyrrole		87-58-1			
lodoquinol		83-73-8			
lofetamine 1221		75917-92-9			
loglycamic Acid	,	2618-25-9			
lohexol		66108-95-0			
lomeglamic Acid		25827-76-3			
lomeprol		78649-41-9			
lopamidol		60166-93-0			
lopanole Acid		96-83-3			
lopentol		89797-00-2			
lophendylate		99-79-6			
lophenoxic Acid		96-84-4			
lopromide		73334-07-3			
lopronic Acid		41473-08-9			
lopydol		5579-92-0			
lopydone		5579-93-1			
lothalamic Acid		2276-90-6			
lotrolan		79770-24-4			
loversol		87771-40-2			
loxaglic Acid		59017-64-0			

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API Generic Name	API Chemical Name	CAS No.	Refe 	Reference	Example of Therapeutic Use	Example of Indication
loxiian Is se:	190 AD (Ashae) THE DAM 11 air said	0.71-00-101	2	WO 0401420	Anstrosic other	Pain neuropathic
IP-/51	ביים אינים ביים ביים ביים ביים ביים ביים ביים		2	6741046		
Ipidacrine		62732-44-9				
	Stigmastan-15-one, 22,23-epoxy- 3,4,6,7,29-pentahydroxy-,					
IPL-576092	('34pha,415,34pha,54tpha,715,1415,225)- [CAS]	137571-30-3	വ	6046185	Antiasthma	Asthma
Ipodate		5587-89-3				on the state of th
pratropium bromide		22254-24-6			Formulation, inhalable, solution	disease
	(endo,syn)-(±)-3-(3-Hydroxy-1-oxo-2- phenytoropoxy)-8-methyl-8-(1-methylethyl)-					
ipratropium	o-accinatively.c. Housing				Formulation, inhalable, topical	Asthma
	Hydrazinecarboxamide, 2-[1,2,3,6-tetrahydro-3-hydroxy-1-(1-methylethyl)-6-					
iprazochrome	oxo-5H-indol-5-ylidene}-[CAS]	7248-21-7			Haemostatic	
priflavone	4H-1-Benzopyran-4-one, /-(1- methylethoxy)-3-phenyl- [CAS]	35212-22-7	G	214647	Osteoporosis treatment	Osteoporosis
Iprindole		5560-72-5				
Iproclozide		3544-35-2				
Iproniazid		54-92-2				
Ipsapirone		95847-70-4			,	
irbesartan	2-n-butyf-4-sprocyclopentane-1-[((2-tbtzazol-5-yl)biphenyf-4-yl)methyl]-2-imidazolin-5-one	138402-11-6	9	9114679	Antihypertensive, renin system	Hypertension, general
	Butanedioic acid, mono[2-[2- (acetythio)ethyl]-2,3-dihydro-4,6,7-					
IRFI-042	unnemyr-s-cenzoninanyi esien, (*/-)- [CAS]	134867-62-2	တ္သ	5114966	Cardiovascular	Atherosclerosis
	N-Cyclopentyl-1-methylimidazo(1,2-alouinoxalin-4-amine					
IRFI-165		191349-26-5	<u>a</u>	865442	Antidepressant	Depression, general
Iridomyrmecin		485-43-8				

API Generic Name	API Chemical Name	CAS No.	Patent Refere	92	Example of Therapeutic Use	Example of Indication
irindalone	-Imidazolidinone, 1-{2-{4-{3-{4-}}}} fluorophenyl-2,3-dihydro-1H-inden-1-yl}-1-104113-57-7 piperazinyljethyl}-, (1R-trans)- [CAS]	104113-57-7 96478-43-2	a	183349	Antidepressant	Depression, general
Irinotecan	111111111111111111111111111111111111111	97682-44-5		•		
irofulven	Spiro(cyclopropane-1,5-15Hjinden)-/'(6'H)- one, 6'-hydroxy-2',4',6'-trinethyl-, (R)- [CAS]	125392-76-9	Sn	5563176	Anticancer, other	Cancer, prostate
Iron Sorbitex		1338-16-5			,	
irsogladine	1,3,5-Triazine-2,4-diamine, 6-(2,5-dichlorophenyl)- [CAS]	57381-28-9 57381-28-9 57381-33-6	Š	4657907	Antihypertensive, diuretic	Hypertension, general
IS-741	Cydohexanecarboxamide, N-[2- [(ethytsuffonyl)amino]-5-(trifluoromethyl)-3- pyridinyl)- [CAS]	141283-87-6	<u>.</u>	465913	Gl inflammatory/bowel disorders	Pancreatitis
sagitazone	2,4-Thiazolidinedione, 5-[[6-[(2-fluorophenyl)methoxy]-2-naphthalenyl]methylHCAS]	161600-01-7	S	5594016	Antidiabetic	Diabetes, Type II
ISAtx-247			2	502362	Immunosuppressant	Transplant rejection, general
Isbogrel		89667-40-3				
	D-Streptamine, O-6-amino-6-deoxy-Alpha-D-glucopyranosyl-(1-4)-O-(3-deoxy-4-C-methyl-3-(methylamino)-6-1-arabinopyranosyl-(1-6) -N1-(3-amino-2-6-1-6) -N1-(3-amino-2-6-1-6-1-6) -N1-(3-amino-2-6-1-6-1-6-1-6-1-6-1-6-1-6-1-6-1-6-1-6	58152-01-5	9			
rsepamich Proaminile	וואסומאי ו-סמסאי וישטאי ו-סמסאי (פירי) (פירי) אינו וואסומאי	77-51-0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Animographic antimode	illection, cerniatological
Isobutyl p-		94-14-4		:- 	-	
Aminobenzoate		0 00				
Isocarboxazid	1.19.19.6. dirthomber and w. 1.2.12. 4.	59-63-2		-		
isoconazole		27523-40-6	8	1244530	Antifungal	Infection, fungal, general
Isoetharine		530-08-5				

API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
	I, 4-{3-fluoro-10,11-	106819-39-0				
isofloxythepin	methylethyl)dibenzo[b,f]thiepin-10-yf]- [CAS]		89	2010843	Neuroleptic	
isoflurane	Ethane, 2-chloro-2-(difluoromethoxy)-1,1,1 trifluoro- [CAS]	26675-46-7	S	3535388	Anaesthetic, inhalation	Anaesthesia
Isoflurophate		55-91-4				
Isoladol		530-34-7				
Isomethadone		466-40-0				
Isometheptene		503-01-5				
ßoniazid		54-85-3				
Bonixin		57021-61-1				
Isopromethazine		303-14-0				
Isopropamide lodide		71-81-8				
Isopropyl Alcohol		67-63-0				
	5-Heptanoic acid, 7-(3,5-dihydroxy-2-(3-oxodecyl)cyclopentyl)-, 1-methylethylester, 44 N-1-(2), 23 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3					
isopropyl unoprostone	(1174 174) (174 174) (174 174) (174 174) (174 174) (174 174)	120373-24-2	<u>a</u>	289349	Prostaglandin	Glaucoma
Isoproterenoi		7683-59-2				
Isosorbide		652-67-5				
isosorbide dinitrate	D-Glucifol, 1,4:3,5-danhydro-, dinitrate [CAS]	87-33-2			Formulation, modified-release, other	Angina, general
isosorbide mononitrate	D-Glucitol, 1,4:3,6-djanhydro-, 5-nitrate [CAS]	16051-77-7			Formulation, modified-release, other	Angina, general
Isothipendy l		482-15-5	ç	0000		
sotretinoin	Keunoic acid, 14-cis-[CAS]	4/39-46-2	3	4843030	Anuache	Acrie
Isovaleryl Diethylamide		533-32-4				
Boxepac		55453-87-7				
koxicam		34552-84-6				
Isoxsuprine		395-28-8				

API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
isradipine	3,5-Pyridinedicarboxylic acid, 4-(4-benzofurazanyl)-1,4-dihydro-2,6-dimethyl-methyl 1-methylethyl ester [CAS]	75695-93-1	8	2037766	Anthypertensive, other	Hypertension, general
	6H-Thieno[3,2-f][1,2,4]triazolo[4,3- a][1,4]diazepine, 4-(2-chlorophenyl)-6,9- dimeth.(2,32,14,2-					
israpafant	methydropyl)phenyljethylj-{CAS}	117279-73-9	<u>a</u>	268242	Antiasthma	Asthma
ISV-403			ട്ട	5447926	Formulation, mucosal, topical	Conjunctivitis
Itasetron		123258-84-4				
ITF-282	ITF 282 [CAS]	93615-44-2	89	2115821	Antianaemic	Anaemia, general
itopride	Benzamide, N-[[4-[2- (dimethylamino)ethoxyjphenyljmethyl]-3,4- dimethoxy-, monohydrochloride [CAS]	122892-31-3	<u> </u>	306827	Gastroprokinetic	Gastritis
	3H-1,2,4-Triazot-3-one, 4-[4-[4-[2-(2,4-dichorophenyl)-2-(1H-1,2,4-triazot-1-yimethyl)-1,3-dioxolan-4-yimethoxyjphenyl]-1-piperazinyllohenyl]-					
itraconazole	2,4-dihydro-2-(1-methyfpropyl)- [CAS]	84625-61-6	<u>പ്</u>	6711	Antifungal	Infection, fungal, general
Itramin		13445-63-1				
âtriglumide	1-Naphthalenepropanoic acid, B-[2-[[2-(8-azaspiro[4.5]dec-8-y/carbonyl)-4,6-dimethylphenyl]amino]-2-oxoethyl]-, (BR)-[CAS]	201605-51-8	WO WO	WO 9800404	Anxiolytic	Anxiety, general
	D-Alaninamide N-acetyl-3-(2-naphthalenyl)-D-alanyl-4-chloro-D-phenylalanyl-3-(3-pyridinyl)-D-alanyl-L-seryl-N6-(3-pyridinylcarbonyl)-L-lysyl-N6-(3-					
iturelix	pyridiny/carbonyl)-D-lysyl-L-leucyl-N6-(1-methylethyl)-L-lysyl-L-prolyl- [CAS]	112568-12-4	8	WO 8901944	Fertility enhancer	Infertility, female
ivabradine	7,8-dimethoxy-3-(3-II(1S)(4,5- dimethoxybenzocyclobutan-1- yl)methylimethylamino[propyl}-1,3,4,5- tetrahydro-2H-benzazepin-2-one				Antianginal	Angina, general

API Generic Name	API Chemical Name	CAS No.	Patent Reference	92	Example of Therapeutic Use	Example of Indication
ivabepilone	17-Oxa-4-azabicydo(14.1.0)heptadecane-5,9-dione, 7,11-dihydroxy-8,8,10,12,16-pentamethyl-3-(1-methyl-2-(2-methyl-4-thiazolyl)ethenyl, (1R,3S,7S,10R,11S,12S,16R) [CAS]	219989-84-1			Anticancer, other	Cancer, breast
J-104132	5H-Cyclopenta[b]pyridine-6-carboxylic acid, 5-(1,3-benzodioxol-5-yl)-2-butyl-7- [Z[(2S)-2-carboxypropyl]-4-methoxyphenyl] 6,7-dihydro-, (5S,6R,7R)- [CAS]	198279-45-7		9737665	Anthypertensive, other	Heart failure
J-107088	5H-Indolo(2,3-a)pyrrolo(3,4-c)carbazole-5,7(6H)-dione, 12-8-D-glucopyranosyl-12,13-dihydro-2,10-dihydroxy-6-((2-hydroxymethyl)ethyl)amino-[CAS]	174402-32-5			Anticanoer, other	Cancer, bladder
J-113397	1-{(3R,4R}-1-Cyclooctyimethyl-3- hydroxymethyl-4-piperidylj-3-ethyl-1,3- dihydro-2H-benzimidazole-2-one				Analgesic, other	Pain, generaí
Janex-1	Phenol, 4-{(6,7-dimethoxy-4-quinazoliny/)amino}-{CAS}	202475-60-3			Anticancer, other	Cancer, leukaemia, general
josamycin	Leucomycin V, 3-acetate 4B-(3- methyfbutanoate) [CAS]	16846-24-5	ਰ ਜ	41021759	Macrolide antibiotic	Infection, general
JTV-519	1,4-Benzothiazepine, 2,3,4,5-tetrahydro-7-methoxy-4-{1-oxo-3-{4-{phenylmethyl}-1-piperidiny[]propyl}-[CAS]	145903-06-6	WO 9212148		Cardiovascular	Infarction, myocardial
K-777			US 626	6287840	Protozoacide	Infection, trypanosomiasis, American
Kainic Acid Kalmate Kalliviin	Kalimate- [CAS]	487-79-6 92354-70-6 342-10-9			Urological	
KB-130015	Acetic acid (2,6-diiodo-4-((2-methyt-3- benzofuranyl)methyl)phenoxy)- [CAS]	147030-48-6			Antiarrhythmic	Arrhythmia, general

			Patent	¥		
API Generic Name	API Chemical Name Methanesulfonamide, N-{3-amino-4-{2-{12-}	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
KCB-328	thoxyphenyl)ethyl methylamino ethox snyl-, monohydrochloride [CAS]	177596-55-3	<u>8</u>	WO 9604231	Antiarrhythmic	Arrhythmia, general
Kebuzone		853-34-9				
ketamine	2-(2-Chlorophenyl)-2-(methylamino)- cyclohexanone hydrochloride	6740-88-1			Formulation, transmucosal, nasal	Pain, post-operative
ketanserin	2,4(1H,3H)-Quinazolinedione, 3-[2-[4-(4-fluorobenzoyl)-1-piperidinyljethyl][CAS]	74050-98-9 83846-83-7	&	13612	Antihypertensive, other	Hypertension, general
	4H-[1,3]Oxazino[3,2- d[1,4]benzodiazepine-4,7(6H)-dione, 11- chloro-8,12b-dihydro-2,8-dimethyl-12b-	07792-36 <u>-4</u>	g	1222204	Anviolutic	
Merazoran		0.3300				
Kethoxal		2//62-/8-3				
Ketobemidone		469-79-4				
	Proenazine, 1-acetyl-4-[4-[[2-(2,4-dichorophenyl)-2-(1H-imidazol-1-ylmethyl)-1,3-dioxolan-4-ylmethoxy]phenylj-, cis-		-			
ketoconazole	[CAS]	65277-42-1	<u>s</u>	4335125	Antifungal	Infection, fungal, general
ketoprofen	mono(3-benzoyl-Apha- methylbenzeneacetata) [CAS]	173011-11-5	ದಿ	502502	Fomulation, transdermal, systemic	Pain, general
ketorołac	1H-Pyrrolizine-1-carboxylic acid, 5-benzoyl; 74103-05-3 2,3-dihydro-, (+/-)- [CAS]	74103-06-3 74103-07-4	<u>a</u>	53021	Analgesic, NSAID	
Ketorolac Tromethamine						·
	10-H-Benzo[4,5]cyclohepta[1,2-b]thiophen- 10-one, 4,9-dihydro-4 (1-methyl-4- procedingleone), (5)-2 by the original (1.1) 14880.13.7	34580-12.7				
ketotifen		34580-14-8	සු	1355539	Antiasthma	Asthma
Khellin		82-02-0				
kinetin		9001-29-0			Dermatological	Photodamage

API Generic Name	+ \$	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
KNI-272	isoquinolinyloxy)acetyljamino}-3- (methylthio)-1-oxopropyljamino}-1-oxo-4- phenylbutylj-, [4R-[3[25",3S"(R")],4R"]}- [CAS]	147318-81-8	<u>ა</u>	5644028	Antviral, anti-HIV	Infection, HIV/AIDS
KP-103	(R,R)-2-(2,4-Difluorophenyl)-3-(4- methylenepiperidin-1-yl)-1-(1,2,4-triazol-1- yl)-2-butanol				Antfungal	Infection, general
KP-157 KP-544			s	6110961 9919305	Antidepressant Cognition enhancer	Depression, general Unspecified
KRN-5500	L-glycero-ß-L-manno- Heptopyranosylamine, 4-deoxy-4- III(2E,4E)-1-oxo-2,4- tetradecadienyljamino]scetyljamino]-N-1H- purin-6-y-l (CAS)	151276-95-8	ow Wo	9015811	Anticancer, antibiotic	Cancer, colorectal
KT-136	Aipha-D-Glucopyranoside, B-D- fructofuranosyl, mbt. with 1-eithenyl-2- pyrrolidinone homopolymer compd. with iodine [CAS]	121602-88-8	······································	. —	Fomulation, dermal, topical	Ulcer, decubitus
	(-)-2-[(2S)-1,2,3,4-tetrahydro-2-[(2R)-2-hydroxy-2-(4-hydroxphenyl)ethyljaminojnaphthalen-7-yloxyj-N,N-dirnethylacetamidehydrochloride monohydrate					
KUL-7211 KW-2170	6H-Pyrazoło[4,5,1-de]acridin-6-one,5-[(3-aminopropyl)amino]-7,10-dihydroxy-2-[[(2-hydroxyethyl)amino]methyl]-, dihydrochloride [CAS]	207862-44-0			Orotogical Anticancer, alkylating	Cancer, lung, non-small cell
KW-6002	1H-Purine-2,8-dione, 8-(2-(3,4-dimethoxyphenyl)-th-1,3-diethyt-3,7-dihydro-7-methyl- (E)- [CAS]	155270-99-8			Antiparkinsonian	Parkinson's disease
KW-7158	3,3,3-Trifluoro-2-hydroxy-2-methyl-N-(10- oxo-4,10-dihydrothieno[3,2-Ci[1] benzothiepin-9-ylpropanamide 5,5 dioxide			,	Urological	Incontinence

			Patent			:
API Generic Name		CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
		:		•		
	phenyt-1H-1,4-benzodiazepin-3-yl)-N'-(3-				erie	
1-365260		118101-09-0	<u>a</u>	284256	Anticancer, other	Cancer, general
L-5-hydroxytryptophan		4350-09-8			Metabolic and enzyme disorders	Unspecified
	Methanesulfonamide, N-[6-[(2,4-					
1.745337	diffuorophenyl)thio}-2,3-dihydro-1-oxo-1H-inden-5-vil- ICASI	158205-05-1	8	WO 9413635	Analgesic, NSAID	Pain, general
					-	
	Phosphonic acid, [3-[[(2R,3S)-2-(.(1R)-1-					
	[3,5-bis(trifluoromethyl)phenyljethoxyj-3-(4- fluoromethyl,4-mombolinyllmethyll,2 5-					Chemotherapv-induced
L-758298	77	172673-20-0	ş	9523798	Antiemetic	nausea and vomiting
1-826141			ş	9722585	Antiasthma	Unspecified
	5-{1-hydroxy-2-{(1-methyl-3-	32780-64-6				
labetalof	phenyipropyl)aminojethyljsalicylamide HCI 36894-69-6	36894-69-6	<u>s</u>	4012444	Antihypertensive, adrenergic	
	3,5-Pyridinedicarboxylic acid, 4-[2-[3-(1,1-					
	dimethylethoxy)-3-oxo-1-propenyllphenylj-					
lacidinina	CASI	103890-78-4	g	2164336	Antihypertensive other	Hypertension, general
accompany of the second			}			
Lactic Acid						
lactitol	D-Gildriol, 4-C-15-D-galadopyranosyr- [CAS]	585-86-4			Hepatoprotective	Infection, neurological
Lactulose		4618-18-2			•	
	Acetamide, 2-[(2-furanylmethyl)sulfinyl]-N-				-	
	[4-[[4-(1-piperidinylmethyl)-2-pyridinyljoxy]- 118288-08-7	118288-08-7	Q	26000		
напроне	ב-החומולי, (בין וכיים)	103033*13-0	5	770707	Altered	Order, gasuic
Lamifiban		144412-49-7				
	2(1H)-Pyrimidinone, 4-amino-1-[2-				•	
lamivudine	(nydroxymetryr)-1,3-oxamiotan-5-yrj-, (zrcis)- [CAS]	134678-17-4	읍	513917	Antiviral, anti-HIV	Infection, HIV/AIDS
	1.2.4-Triazine-3.5-diamine, 6-(2.3-					,
lamotrigine	Si	84057-84-1	<u>G</u>	21121	Antiepileptic	Epilepsy, partial (focal, local)

API Generic Name	API Chemical Name Benzenepropanoic acid, 4-[2-hydroxy-3-[2-	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
landiolol	pholinylcarbonyl)aminojethyljaminojpr xył. (2,2-dimethyl-1,3-dioxolan-4- iethyl ester, [S-(R*,R*)}- HCL	133242-30-5	<u>а</u>	397031	Antiarrhythmic	Tachycardia, general
lanicemine	mine	153322-05-5			Neurological	Unspecified
	Methyl 6,11-dihydro-11-[1-{2-{4-{-2- quinolylmethoxy)phenyljethyl]-4- pperidinylidene]-5H-imidazo[2,1- b][3]benzazepine-3-carboxylate					
laniquidar		197509-46-9	8	9734897	Radio/chemosensitizer	Cancer, general
lanoconazole	1H-Imidazole-1-scatonitrile, Alpha-[4-(2- chlorophenyl)-1,3-dithiolan-2-yildene]-, (E)- (±)- [CAS]	101530-10-3	<u>გ</u>	4738976	Antifungal	Infection, fungal, general
Lanoteplase		171870-23-8				
Lanreotide		108736-35-2				•
lansopra z ole	-(2,2,2- Iffinyl)-	103577-45-3	9	174726	Antiuleer	Ulcer, duodenal
lanthanum carbonate	Carbonic acid, lanthanum(3+) salt (3.2){CAS}	587-26-8	8	5968976	Urological	Hyperphosphataemia
i i i	4-Quinazolinamirle, N-{3-chloro-4-{(3-fluorobenzy)methoxy phenyl}-6-{5-{[[2-fmethylsulfonylethyl]aminojmethyl]turan-2-yl	388082.78-8			Antisanse other	Canger breast
laquinimod		248281-84-7			treatment	Multiple sclerosis, general
аѕобохіївле	2-Naphthalenol, 5,6,7,8-tetrahydro-6- phenyl-5-(4-(2-(1- pyrrolidinyl)ethoxy)phenyl-(5R-dis)-, (S- (R*, R*1)-2,3-dihydroxybutanedioate [CAS] 190791-29-8		9 OM	9716434	Menopausal disorders	Hormone replacement therapy

API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
Іаіатохов	5-0xa-1-azabicyclo[4.2.0]oct-2-ene-2- carboxylic acid, 7-I[carboxy(4- hydroxyphenyl]acety[jamino]-7-methoxy-3- [[(1-methyl-1H-tetrazol-5-yl]thio]methyl]-8- oxo- [CAS]		89	1547351	Beta-lactam antibiotic	Infection, general
latanoprost	5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-5-phenylpentyl)cydopentyl)-, 1-methylethyl ester, (1R-(14)phe(2),20(R'),34pha,54pha)- [CAS] 130209-82-4		ow N	9002553	Prostaglandin	Glaucoma
Lauroguadine Laurolinium Acetate		135-43-3 146-37-2				
Lawsone LAX-111	1-(Z,Z,Z,Z-eicosa-5,8,11,14,17- pentaenoyłoxy)-3-(Z,Z,Z,Z-eicosa- 5,8,11,14,17-pentaenoyłoxy)-propane	03-12-1 103878-84-8			Neuroleptic	Schizophrenia
LB-30057	Benzenecarboximidic acid, 4-{(2S}-3- (cyclopentylmetrylamino}-2-{(2- naphthalenylsulfonyl)amino}-3-oxopropyl]-, hydrazide [CAS]		8	9749673	Antithrombotic	Thrombosis, venous
L-Cystine Lefetamine		7262-75-1				
leffunomide	4-Isoxazolecarboxamide, 5-methyl-N-[4- (trifluoromethyl)phenyl-[CAS]	75706-12-8	<u>.</u>	13376	Antiarthritic, immunological	Arthritis, rheumatold
leftunomide	4-Isoxazolecarboxamide, 5-methyl-N-[4- (trifluoromethyl)phenyl]- [CAS]	104981-93-3 75706-12-6	ಸ್ತ	5610173	Anticancer, other	Cancer, ovarian
Leiopyrrole	4-Thia-1-azabicyclo[3.2.0]heptane-2-	5633-16-9				
, lenampicillin	carboxylic acid, 6- [(aminophenylacetyl)amino]-3,3-dimethyl-7, oxo-, (5-methyl-2-oxo-1,3-dioxol-4- ylymethyl ester, [2S- [2Apha,5Apha,68(S*)]]- [CAS]		<u> </u>	61206	Penicillin, oral	Infection, general
lentinan	Lentinan [CAS]	37339-90-5			Anticancer, immunological	Cancer, stomach

			Patent	#		
API Generic Name Lepirudin		CAS No.	Kete	Keterence	Example of Inerapeutic Use	Example of Indication
·	3.5-Pyridinedicarboxylic acid, 1,4-dihydro- 2,6-dimethyl-4-(3-nitrophenyl)-, 2-[(3,3- disbandaroxylmethylamion-1,1.					
ercanidinine	hloride	100427-26-7	S.	4705797	Antihvoertensive, other	Hypertension. general
	1H-Benzimidazole, 1-(phenylmethyl)-2-(1-					; •
knisetron	piperazinyl)- [CAS]		ရှ	5256665	Antiemetic	Nausea and vomiting, general
Lesopitron		132449-46-8				
	ydro-6-oxo-9H- no)-,					
leteprinim		138117-50-7	ရှ	6338963	Antiparkinsonian	Parkinson's disease
letosteine	4-Thiazolidinecarboxylic acid, 2-{2-{(2- ethoxy-2-oxoethyl)thiojethyl]- [CAS]	53943-88-7	S S	4032534	COPD treatment	Bronchitis, chronic
olosmolo	Benzonitrile, 4,4'-(1H-1,2,4-triazol-1-	112800.51.5	` 0	236040		Conces beaut
Au UZURE	•	\int		2		Califer, Measi
Leucocyanidin		480-17-1				
Leuprolide		53714-56-0				
	Luteinizing hormone-releasing factor (pig), 6-D-feucine-9-(N-ethyl-L-prolinamide)-10-	53714-56-0				
leuprolide acetate		74381-53-6			Formulation, implant	Cancer, prostate
	Luteinizing hormone-releasing factor (pig), 6-D-leucine-9-(N-ethyl-L-prolinamide)-10-					
leuprorelin		53714-56-0			Formulation, implant	Cancer, prostate
Levallorphan		152-02-3				
evamisole	Imidazo[2,1-b]thiazole, 2,3,5,6-tetrahydro-6-phenyt, (S)- [CAS]	14769-73-4	-× S	4584305	Anthetmintic	Infection, helminth, general
Levcromakalim		94535-50-9				
levetiracetam	1-Pymolidineacetamide, Apha-ethyl-2-oxo- , (S)- [CAS]	102767-28-2	<u>-</u> _	162036	Antiepileptic	Epilepsy, general
levobetaxolol	2-Propanol, 1-(4-(2- (cyclopropyimethoxy)ethyl)phenoxy)-3-((1- methylethyl)amino) hydrochloride [CAS]	116209-55-3			Formulation, mucosal, topical	Glaucoma

API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
levobunolol		27912-14-7 47141-42-4	S	3641152	Formulation, mucosal, topical	Glaucoma
evobupivacaine	2-Piperidinecarboxamide, 1-butyl-N-(2,6-dimethytphenyl)-, (S)- [CAS]	27262-47-1	0M	9510276	Anaesthetic, injectable	Anaesthesia
levocabastine	acid, 1-[4-cyano-4- rexyl]-3-methyl-4- Npha,48]]- [CAS]	79449-38-2 79516-68-0 79547-78-7	SN	4369184	Antiallergic, non-asthma	Rhinitis, allergic, general
levoœtirizine	Acetic acid, (2-(4-((4- chlorophenyl)phenylmethyl)-1- piperazinyl)ethoxy)-, (R)- [CAS]	· &	<u></u>	9406429	Antiallergic, non-asthma	Alergy, general
Levodopa levodropropizine		59-92-7 99291-25-5	6	147847	Antiussive	Cough
levofloxacin	7H-Pyrido[1,2,3-de]-1,4-benzoxazine-6- carboxylic acid, 9-fluoro-2,3-ditrydro-3- methyl-10-(4-methyl-1-piperazinyl)-7-oxo-, (S)- [CAS]	100986-85-4 138199-71-0	ជា	206283	Quinolone antibacterial	Infection, respiratory tract, lower
Levomethadyl Acetate		1477-40-3				
levomoprolol	2-Propanol, 1-(2-methoxyphenoxy)-3-[(1-methyfethyl)amino]-, (S)- [CAS]		G.	15418	Antihypertensive, adrenergic	
levonorgestrel	18,19-Dinorpregn-4-en-20-yn-3-one, 13- ethyl-17-hydroxy-, (17Alpha)- [CAS]	797-63-7			Formulation, implant	Contraceptive, female
Levophacetoperane Levopropoxyphene Levorphanol		24558-01-8 2338-37-6 77-07-6				
levosimendan			6	383449	Cardiostimulant	Heart failure
levosulpirde	Benzamide, 5-{aminosulfonyl}-N-[(1-ethyl- 2-pyrrolidinyl)methyl]-2-methoxy-, (S)- [CAS]	23672-07-3	gg	2014990	Antiemetic	Dyspepsia

API Generic Name Levothyroxine	API Chemical Name	CAS No.	Patent Reference	92	Example of Therapeutic Use	Example of Indication
levovirin	1-6-1-ribofuranosyl-1,2,4-triazole-3- carboxamide				Antiviral, other	Infection, hepatitis-C virus
expafant	L-Leucine, N-methyl-N-[[4-[(2-methyl-1H-imidazo[4,5-c]pyridin-1-yl)methyljphenyl[sulfonyl]-, ethyl ester-[CAS]	139133-26-9	WO 920	9203423	Neurological	Dementia, AIDS-related
LF-15-0185			WO 962	9624579	Immunosuppressant	Lupus erythematosus, general
LF-16-0687	2-Pyrrolidinecarboxamide, N-{3-[[4- (aminoiminomethyl)benzoyl]aminojpropyl- 1-[[2,4-dichloro-3-[[(2,4-dimethyl-8- quinolinyl)oxyjmethyljphenyl]sulfonyl-, [2S)- [CAS]	209733-45-9	FR 275	2756562	Neuroprotective	Head trauma
LGD-1550	2,4,6-Octatrienoic acid, 7-(3,5-bis(1,1- dimethylethyl)phenyl)-3-methyl- (2E,4E,6E)- [CAS]	178600-20-9 9002-67-9			Anticanoer, other	Cancer, cervical
LH-RH liarozole	enyl)-1H-	9034-40-6 115575-11-6			Formulation, other	Psoriasis
⊞otelone Licostinel	1H-Pyrrolizine-5-acetic acid, 6-(4- chlorophenyl)-2,3-ditydro-2,2-dimethyl-7- phenyl- [CAS]	15887-06-2 153504-81-5	The state of the s		Antiarthritic, other	Arthritis, osteo
idedronate Lidamidine	Phosphonic acd, [1-amino-3- (dimethylamino)propylidenejbis- [CAS]	63132-38-7 66871-56-5	WO 970;	9702827	Urological	Unspecified
iidocaine Lidofenin	Acetamide, 2-(diethytamino)-N-(2,6- dimethytphenyl)- [CAS]	137-58-6 59160-29-1			Formulation, transdermal, patch	Pain, post-herpetic
Lidoflazine limaprost	Prosta-2,13-dien-1-oic acid, 11,15- dihydroxy-17,20-dimethyl-9-oxo- ,(2E,114pha,13E,15S,17S)-, [CAS]	3416-26-0 74397-12-9	GB 204	2041368	Prostaglandin	Buerger's syndrome

			Datent	te		
	A Charles I Mark	CACNO	. 0	9	Example of Therapantic Hea	Example of Indication
API Generic Name						
Lindane		58-89-9				
	Acetamide, N-((3-(3-fluoro-4-(4-momholinyllohenyl)-2-oxo-5-					
linezolid	oxazolidinyl)methyl)-, (S)- [CAS]	165800-03-3	Ş.	9507271	Antibiotic, other	Infection, dermatological
Linoleic Acid		60-33-3				
Linolenic Acid		463-40-1				
Liothyronine		6893023				
Lipase	,	9001-62-1				
	Pregna-1,4-diene-3,20-dione, 9-fluoro-					
Lipo-dexamethasone palmitate	oxphexadecylloxy]-, (118,16Apha)- [CAS] 14899-36-6	14899-36-6			Formulation, optimized, microemulsion Arthritis, rheumatoid	Arthritis, rheumatoid
	[1,1'-Biphenyi]-4-acetic acid, 2-fluoro- Arha-methyl. 1-fecetyloxylethyl ester					
ipo-flurbiprofen	[CAS]	91503-79-6	٩	60208910	Formulation, optimized, microemulsion	Pain, cancer
Lipogel HA			<u>a</u>	525655	Formulation, optimized, liposomes	Unspecified
المارينين ا	oerfinoroctythomide	423-55-2	SO	5437272	Lung Surfactant	Respiratory distress syndrome, adult
ראמיייי			}			
,	Carbamothioic acid, (6-methoxy-2- pyridinyl)methyl-, O-(5,6,7,8-tetrahydro-2-		ç			
liranaftate	naphthalenyi) ester [CAS]		<u>n</u>	2124617	Antrungai	imection, dermatological
įsinooril	L-Prolline, 1-INZ-(1-cerpoxy-5- phenylpropyl)-L-lysyl]-, (S)- [CAS]	75547-96-3 83915-83-7	a	12401	Antihypertensive, renin system	Hypertension, general
Lisofylline		100324-81-0			-	
	The N'-1/8Alphal-9.10-didehydro-6-	19875-60-6 305-13-5				•
lisuride	methylergolin-8-yll-N,N-diethyt-, [CAS]	18016-80-3			Antiprolactin	Acromegaly
Lithium Citrate		919-16-4		•		
ithium	Carbonic acid, dilithium salt [CAS]	554-13-2			Formulation, modified-release, <=24hr Depression, bipolar	Depression, bipolar
	Benzamide, N-[3-chloro-4-(5H-pymolo[2,1- ci[1,4]benzodiazepin-10(11H)-					
Exivaplan	ycaroony/pnenyl->-nuoro-z-memyr- [CAS]	168079-32-1	S	5736540	Cardiovascular	Heart failure
LIP-1082			S	6207160	immunosuppressant	Thrombosis, venous

API Generic Name	API Chemical Name S-2,7,8-Trimethyl-6-(3-carboxyethyl)-6-	CAS No.	Patent Refere	a)Ce	Example of Therapeutic Use	Example of Indication
LLUAlpha	hydroxychroman				Antihypertensive, other	Hypertension, general
LMP-160			ရ			Asthma
LMP-420			န	5643893	Antiarthritic, other	Arthritis, rheumatoid
	Platinum, (1,2-cyclobutanedimethanamine-N,N)[2-hydroxypropanoato(2-)-O1,O2]-,	:				:
lobaplatin	[SP-4-3-(S).(trans)]- [CAS]	135558-11-1	씸	4115559	Anticancer, alkylating	Cancer, lung, small cell
Lobeline		90-69-7				
Lobenzarit		63329-53-3				
	2,2'-((2-chloro-5-cyano-1,3- phenylene)diimino)bis(2-oxoacatate);2-	63640.00.3				
lodoxamide		53882-12-5	s	4439445	Antiasthma	Asthma
Lofentanil		61380-40-3				
lofepramine	Ethanone, 1-(4-chlorophenyl)-2-[[3-(10,11- dihydro-5H-dibenz[b,f]azəpin-5- yl)propyljmethylamino}- [CAS]	23047-25-8 26786-32-3	89	1177525	Antidepressant	
·	1H-Imidazole, 2-[1-(2,6-					
lofexidine	dichlorophenoxyjethyl 4,5-dinydro- [CAS] 31036-80-3	31036-80-3	3	1181356	Anthypertensive, adrenengic	Hypertension, general
Loffucarban	O tripo t pipo office description of the	7-80-08/				
lomefloxacin	ordinomecanoxyme acu, reunyre, ordinoro-1,4-dinydro-7-(3-methyl-1-piperazinyl)-4-oxo-[CAS]	98079-51-7 98079-52-8	ដា	140116	Quinolone antibacterial	Infection, respiratory tract, tower
iomarizina	Piperazine, 1-[bis(4-fluorophenyl)methyl]-4-101477-54-7	101477-54-7 101477-55-8	<u>a</u>	159566	Antimicraine	Migraine
komifylline		10226-54-7	出	2207860	Neurological	
komustine	Urea, 'W-(2-chloroethyl)-N'-cyclohexyl-N- nitroso- [CAS]	13010-47-4	굨	48075526	Anticancer, alkylating	
lonafamib	1-Piperdinecarboxamide, 4-{2-{4-{(11R)-3,10-dibromo-8-chloro-6,11-dihydro-5H-benzo[5.6]cydohepta[1,2-b]pyridin-11-yl]-1-piperidinylj-2-oxoethyl]- [CAS]	193275-84-2	SN	5874442	Anticancer, other	Cancer, lung, non-small cell

			Patent	ŧ		
API Generic Name	API Chemical Name		Refe	Reference	Example of Therapeutic Use	Example of Indication
Lonapalene	:	91431-42-4				
Lonazolac	:	53808-88-1				
knidamine		50264-69-2	DE	2310031	Radio/chemosensitizer	Cancer, breast
loperamide	4-(p-chlorophenyl)-4-hydroxy-N,N-dimethyl Alpha,Alpha-diphenyl-1-pipendine butyramide HCl	34552-83-5 53179-11-6	ജ	3714159	Antidiamhoeal	Diarrhoea, general
loperamide oxide	1-Piperidinebutanamide, 4-(4- chlorophenyl)-4-hydroxy-N,N-dimethyl- Alpha Alpha-diphenyl-, 1-oxde, trans- [CAS]	106900-12-3.	<u> </u>	219898	Antidiamhoeal	Diarrhoea, general
loprazołam	1H-Imidazo[1,2-a][1,4]benzodiazepin-1- one, 6-(2-chlorophenyl)-2,4-dihydro-2-[(4- methyl-1-piperazinyl)methylene]-8-nitro- [CAS]		89	1496426	Hypnotic/Sedative	
Loprinone		106730-54-5				
ioracarbef	1-Azabicyclof 4.2.0]oct-2-ene-2-carboxylic 7-{(aminophenylacalyl)amino}-3- 76470-66-1 chloro-8-oxo-, [6R-[6Alpha,718(R*)]]- [CAS] 121961-22-6		&	14475	Cephalosporin, oral	Infection, respiratory tract, tower
Lorajmine		47562-08-3				
kratadine	1-Piperidinecarboxylic acid, 4-(8-chloro- 5,6-dilhydro-11H-benzo[5,6]cyclohepta[1,2- b]pyridin-11-yildene)-, ethyl ester- [CAS]	79794-75-5	G.	42544	Antiallergic, non-asthma	Rhinitis, allergic, general
krazepam	2H-1,4-Benzodiazepin-2-one, 7-chloro-5- (2-chlorophenyl)-1,3-dihydro-3-hydroxy-	846-49-1			Formulation, oral, orally-disintegrating	Epilepsy, general
lorcainide	Benzeneacetamide, N-(4-chlorophenyl)-N- 58934-46-6 [1-(1-methylethyl)-4-piperidinyl]-[CAS] 59729-31-6		出	2642856	Antiarrhythmic	
ometazepam	2H-1,4-Benzodiazepin-2-one, 7-chloro-5- (2-chlorophenyl)-1,3-dihydro-3-hydroxy-1- methyf- [CAS]	848-75-9	န္	3296249	Hypnotic/Sedative	Insomnia

API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
ютохісат	2H-Thieno[2,3-e]-1,2-thiazine-3- carboxamide, 6-chloro-4-hydroxy-2-methyl- N-2-pyridinyl-, 1,1-dioxide- [CAS]	70374-39-9	8	313935	Analgesic, NSAID	Pain, post-operative
losartan	1H-imidazole-5-methanol, 2-butyl-4-chloro- 1-[[2-(1H-tetrazol-5-yl)[1,1'-biphenyl]-4- yl[methyl]-, [CAS]	124750-99-8 114798-26-4	. 6	253310	Antihypertensive, renin system	Hypertension, general
lotaprednol	Androsta-1,4-diene-17-carboxylic acid, 17- [(ethoxycarbonyl)oxy]-11-hydroxy-3-oxo-, chloromethyl ester, (118,17Apha)- [CAS]	8203 4 46- 6	89	2079755	Anti-inflammatory, topical	Uveitis
Lotrafiban Lovastatin Loxanina		171049-14-2 75330-75-5 102/1977				
loxiglumide	Pentanoic acid, 4-{(3,4-dichlorobenzoyl)amino}-5-{(3-methoxypropyl)pentylamino}-5-oxo-, (±)-{CAS}		Ş Ş	WO 8703869	Gl inflammatory/bowel disorders	Pancreatitis
loxoprofen		68767-14-6 80382-23-6 87828-36-2	<u> </u>	55588		Arthritis, rheumatoid
Lu-35-138	1-[3[[2-{5-chloro-1-(4-fluorophenyl)-3-1H- indoly(jethy(jmethy/amino]propyl]-2- imidazolidinone hydrochlorkle		Q.	9516684	Neuroleptic	Psychosis, general
Lubeluzole	(-)-7-{(2R,4aR,5R,7aR)-2-{1,1- difluoropentyi)-2-hydroxy-6- oxoocahydrocychopenta[b]pyran-5-	144665-07-6				
lubiprostone	yijnepranoic acid	136790-76-6			Laxative	Constipation
lucanthone	Thioxanthen-9one, 1-((2-) (diethylamino)ethyl)amino-4-methyl-[CAS] 479-50-5	479-50-5			Radio/chemosensiizer	Cancar, brain
0	Benzeneacetic acid, 2-((2-chloro-6- fluorophenyl)amino)-5-methyl- (CAS)	82186-77-4 220991-20-8			Analgesic, NSAID	Pain, general
						diri general

API Generic Name	API Chemical Name	CAS No.	Patent Reference	nt ence	Example of Therapeutic Use	Example of Indication
lurfotecan	11H-1,4-Doxnol2,3- glpyranol3,4:6,7]indolizino[1,2-b]quinoline 9,12[8H,14H_dione, 8-ethyl-2,3-dihydro-8- hydroxy-15-[[4-methyl-1- piperaziny[[methyl]-, [CAS]	155773-58-3			Formulation, optimized, liposomes	Cancer, ovarian
Jutetium texaphyrin	Lutetium, bis(acetato-O)[9,10-diethyl-20,21-bis-{2-{2-{2-}}} methoxyethoxy)ethoxy]ethoxy]-4,15- dimethyl-8,11-imino-3,6:16,13-dinitrilo- 1,18-benzodiazacycloeicosine-5,14- dipropanolato-N1,N18,N23,N24,N25]-, (PB	156436-90-7	6 	WO 9906411	- Radio/chemosensitizer	Atherosclerosis
LV-216	Zinq2-(2,6-dichloroanilino)phenyljacetate				Anti-inflammatory	Arthritis, rheumatoid
LX-104	Havadescanamide, N-{4-[[2-{2-{2-[0-(N-ecetyl-Alpha-neuraminosyl}-(2-3)-O-9-D-galactopyranosyl-(1-4)-O-{6-deoxy-Alpha-L-galactopyranosyl-(1-3)}-8-D-giucopyranosyl-(1-3)}-8-D-giucopyranosyl-(1-3)]-8-D-giucopyranosyl-(1-3)]-8-D-giucopyranosyl-(1-3)]-8-D-giucopyranosyl-(1-3)]-8-D-giucopyranosyl-(1-3)	158792-45-1	9	66.67.43	_	Dementia, senile, general Steen discorder general
LY-156735	Is-methyl-chiorometatonin			000243	nyphoudsedanve	okep disorder, general
LY-293111	Benzoic acid, 2-{3-{3-{(5-ethyl-4'-fluoro-2-hydroxyf1,1'-biphenyl]-4-yl)oxy[propoxy]-2-propyfphenoxy]- [CAS]	161172-51-6			Anticancer, other	Cancer, melanoma
17-293558	3-isoquinolinecarboxylic acid, decahydro-6 [2-(1H-tetrazol-5-yl)ettyl]-, [3S- (3Apha., 4aApha., 68, 8aApha.)]-, [CAS] 1,4-Dixxa-8,11-diazacydohaxadec-13-ene-	154652-83-2			Analgesic, other	Pain, neuropathic
LY-355703 Lyapolate Lymecycline	2,5,9,12-tetrone, 10-{(3-chloro-4-methoxyphenyl)methyl-6,6-dimethyl-3-{2-methytpropyl-16-{(15)-1-{(2S,3R)-3-phenyloxiranyljethyl-, (3S,10R,13E,16S)-{CAS}	18256-67-7 25053-27-4 992-21-2	6 0 0	9707798	Anticancer, other	Cancer, lung, non-small cell

Lynestrenol Lysine Acetylsalicylate Lysine, 2-hydroxybenzoate [CAS] lysine salicylate lysophospholipids Dichloro[(4eR, 13aR, 17aR, 21aR)- 1,2,3,4,4a,5,6,12,13,13a,14,15,16,17,17a, 18,19,20,21,21a-eicosahydro-1,7-nitrio- 7H-dibenzo[b,hj [1,4,7,10]tetraazacydo- heptadecine- kappaN5,kappaN13,kappaN18,kappaN21,		52-76-6 50-57-7 62952-06-1 59535-08-9 V	WO 962433 WO 9843091	9624331		
				624331		
				624331		
					Analoesic NSAID	
	aR)- 15,16,17,17a, 2-1,7-nitrito- raszacycko- 18,kappaN21, Iroxyethyl)- rodu (4/1)			9843093	Diagnostic	Diagnosis, cancer
	18.kappaN21,		_			
	18,kappaN21, Ioxyettyl)-					
	18,kappaN21, droxyethyl)-					
	droxyethyl)-					
M-40403	droxyethyl)-		e Sn	6180620	Anticancer, other	Unspecified
Benzeneacetamide, N-(2-hydroxyethyl)- Alpha-methyl-4-(2-methylpropyl)-, (+/-)-						
mabuprofen [CAS]		82821-47-4 C	띰	3121595	Anti-inflammatory	
Mabuterol	<u>8</u>	56341-08-3				
Macrophage Colony-	8	81627-83-0				
Stimulating Factor	_]					
MADU		840-50-6				
benzenesutionamoe, 4-(aminomemyl)- mafenide monoacetate [CAS]		13009-99-9 138-39-6			Vulnerary	Bums
Ethanesulfonic acid, 2-[12-this(2-chioroethyf)amino]tetrahydro-2H-1,3,2-						
oxazapnosphorn+4-yimtep, P-oxde, cs- mafosfamide (±)- [CAS]		88859-04-5 98845-64-8	<u>유</u>	393575	Anticancer, alkylating	Cancer, renal
Aluminum magnesium hydroxide sulfate		74070 16 0	<u>c</u>	099600		
				253000		
magenta i	3[5	122-40-0				
magnesium Acetylsalicylate	2	0.61.7				
Magnesium Carbonate	8	39409-82-0				
Hydroxide Magnesium chloride (MgCt2) [CAS]		7786-30-3			Formulation, oral, enteric-coated	Nutrition

API Generic Name Magnesium Citrate	API Chemical Name	CAS No. 3344-18-1	Patent Reference		Example of Therapeutic Use	Example of Indication
magnesium gluconate Magnesium Lactate		3632-91-5 18917-93-6			Formulation, other	Hypertension, general
Magnesium Salicylate Malathion		18917-89-0 121-75-5 59937-28-9				
Mandelic Acid		90-64-2 5421045				
Ester Mangafodipir		118248-94-5 (free acid);				
	·	(hexahydrogen				
	3,5-Pyridinedicarboxylic acid, 1,4-dihydro-2,6-dimethyl-4-(3-nitrophenyl)-, 2-{4-(diphenylmethyl)-1-piperazinyljethyl methyl 89226-50-6			,		
		89226-75-5 554-74-6	ඩ න	94159	Antihypertensive, other	Hypertension, general
mannonus de la constante	mannose-6-phosphate	2			Volaces as	Wound heeling
Maprotiline		10262-69-8				
maribavir	2-amine, 5,6-dichloro-N-18-t-ribofuranosyl- [CAS]	176161-24-3			Antiviral, other	Infection, cytomegalovirus
marimastat	N-12,2-Dimethyl-1(S)-(N-methylcarbamoyl)propyl[-N,3(S)-dihydroxy-2(R)-isobutylsuccinamide	154039-60-8	WO 92	9402447	Anticancer, other	Cancer, pancreatic
mavacalcitol	1,3-Cyclohexanediol, 4-methylene-5-(2- (octahydro-1-(1-(3-hydroxy-3- methylbutoxy)ethyl)-7a-methyl-4H-inden-4- ylidene)ethylidene)-, (1S- (1Apha(R*),3aß,4E(1S*,3R*,5Z),7aAlpha) - (CAS)	103909-75-7	US 48	4891364	Нотполе	Hvnemarathvroidism
maxacalcuo	- 4		\neg	٦	nombre	nyperparamyrokusm

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ADI Conorie Namo	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
	isoindol-5-ol, 5-(4-					•
mazindol	chlorophenyl)-2,5-dihydro- [CAS]	22232-71-9	S	3763178	Anorectic/Antiobesity	Obesity
Mazipredone		13085-08-0				
MC-5723			ရှ	6043259	Cardiovascular	Unspecified
	(2-amino-6-(4-methoxyphenytthio)-9-[2- (phosphonomethoxy)ethyfjpurine bis(2,2,2- trifluoroethyf) ester)				,	arice O children
MCC-478	902H Pyridazinone 4 5-dihydro-6-14-(4-				Antiviral, other	mecuan, nepanas-o vinas
MCI-154	pyridinylamino)phenylj. monohydrochloride [CAS]	98326-32-0 98326-33-1	<u> </u>	145019	Cardiostimulant	Heart failure
m-Cresyl Acetate		122-46-3				
	Gemma-Methylene-10-deazaaminopterin					
MDAM			9	77000	ar, anumeraboure	Cancer, general
MDI-101			3	4885311		Ache
MDI-403		403849-94-5	ട്ട	4677120	Antiacne	Acne
MDI-100907	4-Piperdinemethanol, Apha-(2,3- dimethoxyphenyl)-1-(2-(4- fluorophenyl)ethyl)-, (R)- [CAS]	139290-65-6			Hypnotic/Sedative	Sleep disorder, general
	methyl-5-benzoyibenzimidazole-2-	31431.30.7	ą	1307206	Anthelmintic	
TREOGRAZIONE	Council poid 2 4 discottone: 4 fother? 2 7	1-00-10-10	3	3		
mokovorine	Benzoic acot, s,4-dineunoxy-, 4-jeuryl,2-(4- methoxyphenyl)-1-methylethyljaminojbutyl ester ICASI	3625-06-7			Antisoasmodic	Irritable bowel syndrome
Methydroline		524-81-2				•
Mebrofenin		78266-06-5				-
Mebutamate		64-55-1				
mecamylamine	Bicyclo(2.2.1) neptan-2-amine, N,2,3,3- tatramethyl- [CAS]	60-40-2			Neurological	Unspecified
Mechlorethamine		51-75-2 302-70-5				
mecilioreulalillile Oxide		005-10-0				

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API Generic Name	API Chemical Name	CAS No.	Reference	Example of Therapeutic Use	Example of Indication
	4-Thia-1-azabicyclo[3.2.0]heptane-2-		-		
	carooxyic acd, b-li(nexanydro-1n-azepiir- 1-d)methylenelaminol-3 3-dimethyl-7-oxo-132887-01-7	32887-01-7			
mecillinam	[2S-(2Alpha,5Alpha,6.beta.)]- [CAS]		GB 1293590	Penicillin, injectable	Infection, general
Meclizine		569-65-3	a managaria		
Meclocycline		2013-58-3		***************************************	
	Benzoic acid, 2-{(2,6-dichloro-3- methytphenyl)amino}-, monosodium salt	6385-02-0			
medofenamate	[cAs]	644-62-2		Antiarthritic, other	Arthritis, osteo
Meclofenamic Acid	•	644-62-2			
Meclofenoxate		51-68-3			
Mecloqualone	•	340-57-8			
Mecysteine		18598-63-5			
Medazepam		12/6/2898			
medifoxamine		32359-34-5	FR M5498	Antidepressant	
Medrogestone		7-62-226			
Medronic Acid		1984-15-2			
	0-dione, 17-(acetyloxy)-6-		·····		
	methyr-,(6Alpha)	71-58-9		Commission Good door combinations	demapositive famale
medroxyprogesterone		520-65-4	-it-	Formulation, tixed-dose compinations	Comuscepave, lemane
Medrysone		2668-66-8			
Mefenamic Acid		61-68-7			
Mefenorex		17243-57-1			•
Mefexamide		1227-61-8			
					
теподиіле	2,8-bis(trifluoromethyl)-, (R*,S*)-(±)-{CAS}	69191-18-0	GB 1594282	Antimalarial	
Mefruside		7195-27-9		•	
Megestrol		595-33-5		•••	
Meglumine		22154-43-4			
	2-hydroxy-2-methyl-1,3-propandicarboxylic	503 40 4			
meglutol		1-54-500	US 3629449	Hypolipaemic/Antiatheroscierosis	Hyperlipidaemia, general

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API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
melagatran	ıyı]amino]c xyl-2-	159776-70-2	8	WO 9616671	Antithrombotic	Thrombosis, general
	N-((3R)-1,2,3,4-Tetrahydroisoquinolinium- 3-yicarbonyil-(1R)-1-(4-chlorobenzyl)-2-[4- cyclohexyl-4-(1H-1,2,4-triazol-1- yimethyl)piperidin-1-ylj-2-oxoethylamine(1)					Viberity
melanocortin-4 agonist Melarsoprol		494-79-1			(Negative Anna Paris)	
Melengestrol melevodopa	Alanine, 3-(3,4-dihydroxyphenyl)- methylester [CAS]	5633-18-1 7101-51-1	<u> </u>	252290	Antiparkinsonian	Parkinson's disease
Melinamide Melitracen		14417-88-0 5118-29-6				
meloxicam	2H-1,2-Benzothiazine-3-carboxamide, 4- hydroxy-2-methyt-N-(5-methyt-2-thiazolyt)-, 1,1-dioxide- [CAS]	71125-38-7	s _D	4233299	Antiarthritic, other	Arthritis, rheumatoki
melperone	1-Butánone, 1-(4-fluorophenyl)-4-(4- methyl-1-piperidinyl)- [CAS]	1622-79-3 3575-80-2 478-87-3	띪	651144	Neuroleptic	1
Melphalan	Benzenemethanol, 2-chloro-Alpha-(((1,1-dimethy/sethyl)amino)methyl) 4-hydroxy-,	0.30.041				
тешадіне	(R)-, (R',R')-2,3-dinydroxyoutanedioate (1:1) (salt) [CAS]	134865-37-5	<u> </u>	420120	Labour inhibitor	Labour, preterm
memantine	Tricyclo(3.3.1.13,7/decan-1-amine, 3,5- dimethyl [CAS]	41100-52-1 19982-08-2	<u>a</u>	392059	Cognition enhancer	Dementia, AIDS-related
MEN-10700	Acetamide, 2-[[[(5R,6S)-6-[(1R)-1-hydroxyethyl]-2-methyl-7-0xo-4-thia-1-azabicyclo[3.2.0]hept-2-en-3-yljmethyljmethylamino]- [CAS]	195874-55-6	o M	WO 9406803	Beta-lactam antibiotic	Infection, general

API Generic Name	API Chemical Name	CAS No.	Patent Reference	Example of Therapeutic Use	Example of Indication
	5,12-Naphthacenedione, 7-[[4-O-(3-amino- 2,3,6-trideoxy-Alpha-L-lyxo- hexopyranosyl)-2,6-dideoxy-Alpha-L-lyxo- hexopyranosyl]oxyl-7,8,9,10-tetrahydro- 6,9,11-trihydroxy-9-flydroxyacetyl)-		CF 5000	. Charles and the state of the	Cancer broact
MEN-10755	hydrochlonde, (75,95)- [CAS]	169317-77-5 481-85-6	S/LEGGE OM	Anticancer, antibiotic	
Menadione		58-27-5			
Menadoxime		573-01-3			
Menbutone		3562-99-0	7 t		
Menogaril	7Alaba Mothid 10 nortestastamo	71628-96-1	··		
MENT				Formulation, transdermal, systemic	Contraceptive, male
menthol	Cyclohexanol, 5-methyl-2-(1-methlethyl)- [CAS]	1490-04-6 89-78-1		Formulation, dermal, topical	Pruritus
Menthyl Valerate		89-47-4		-	
Meobentine	-	46464-11-3			
Meparfynol		77-75-8		777-4	Infantion Candida people
mepartricin	Partnon, metnyl ester [CAS]	11121-32-/	3780173	Antrungai	mecuon, candida, general
Mepazine		60-89-9			
Mepenzolate Bromide		76-90-4	<u></u>		
Meperidine		1-75-10			
Mephenesin		59-47-2			
Mephenoxalone		c-/0-0/		***********	
Mephentermine		100-92-5			
Mephenytoin		50-12-4			
Mephobarbital		115-38-8			*****
Mepindolol		23694-81-7			
Mepitiostane		21362-69-6			
	N-(2,5-Uimemyphenyl)-1-memyrz- piperidinecarboxamide	8-88-96 8-88-96			
mepivacaine				Formulation, modified-release, >24hr	Pain, post-operative
Mepixanox		17854-59-0			

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API Generic Name	API Chemical Name		Refe	Reference	Example of Therapeutic Use	Example of Indication
Meprednisone		1247-42-3				
Meprobamate	•	57-53-4				
	Bufa-4,20,22-trienolide, 3-{(6-deoxy-4-0-methyl-Alpha-L-mannopyranosyl)oxy}-14-					
meproscillarin		33396-37-1		1910207	Cardiostimulant	חפשו ושוחם
meptazinol	o-1-methyl-1H-	54340-58-8 59263-76-2	8	1285025	Analgesic, other	Pain, general
ani mani	10H-Phenothiazine, 10-(1- azabicyclot2, 2,2loct-3-vimethyl}- [CAS]	29216-28-2	89	1250534	Antiallergic, non-asthma	
Meralein		4386-35-0				
Meralluride		8069-64-5				
Merbromin		129-16-8				
Mercaptomerin		21259-76-7				
Mercumallylic Acid		86-36-2				
Mercuric Chloride,		10124-48-8				
Ammoniated						
Mercuric Oleate		1191-80-6				
Mercuric Oxycyanide	•	1335-31-5				
	Carbamic acid, ((3-((((3-methoxy-4-(5- oxazolyl)phenyl)amino)carbonyl)amino)ph enyl)methyl)- (3S)-tetrahydro-3-furanyl					
merimepodib	ester [CAS]	198821-22-6	ဋ	5807876	Antiviral, other	Infection, hepatitis-C virus
·	1-Azabicydo(3.2.0]hept-2-ene-2-carboxylic acid, 3-[[5-[(dimethylamino)carbonyl]-3- pymolidiny[thio]-6-(1-hydroxyethyl)-4-					
meropenem	methy+7-oxo-, [4R- [3(3S*,5S*),4Apha,5ß,6ß(R*)]]- [CAS]	96036-03-2	£	126587	Beta-lactam antibiotic	iniection, respiratory uad, lower
Mersalyl		492-18-2				
Mesalamine		89-57-6				
mesalazine	Benzoic acid, 5-amino-2-hydroxy- [CAS]	89-57-6	ş	WO 5541170	Formulation, oral, other	Colitis, ulcerative
Mesna		19767-45-4				
Mesoridazine		5588-33-0				
				•		

	O Chomical Name	ON ON	Patent Poference	Example of Theraneutic Use	Example of Indication
Ari ceneric name Mestanolone		521-11-9			
Mesterolone		1424-00-6			
Mestranol		72-33-3			
Mesulfen		135-58-0			
Metaclazepam		84031-17-4			
Metamplcillin		6489-97-0			
Metapramine		c-91-06/12			
Metaproterenol		1-00-000			
Metaramino		24-48-8 2724 E2 0			
Metazocine		31 34-32-3 17503 E4 3			
	7	21631-37-8	4404096	A time of the state of the stat	Saction of
metergoline	o-yimenyi, prenymenyi esisi (AS)	C-74-0017	650 1401353		
metformin	[CAS]	657-24-9	- L-4 14-7	Formulation, modified-release, <=24hr	Diabetes, Type II
Mothacholina		62-51-1			•
		014.00.1	.,,-		
Methacycline		78.00.2			
Methadone		70-35-3			
Methafurylene		531-06-6			
Methamphetamine		537-46-2			
Methandriol		521-10-8			
Methandrostenolone		72-63-9			
Methantheline		53-46-3			
Methapyrilene		91-80-5			
Methaqualone		72-44-6			
Metharbital		50-11-3	•		
Methazolamide		554-57-4			
Methdilazine		1982-37-2		-	
Methenamine		100-97-0			
Methenolone		153-00-4			
Methestrol		130-/3-4			
Methetoin		3030-00-0 132-02-3			
Healthail		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			

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API Generic Name	API Chemical Name	CAS No.	Reference	Example of Therapeutic Use	Example of Indication
Methimazole		60-56-0	_	•	•
Methiodal		126-31-8	·		
Methionic Acid		503-40-2			
Methionine		63-68-3			
Methisazone		1910-68-5		•	
Methitural		467-43-6			
Methixene		2/2/4969		-	
Methocarbamol		532-03-6			
Methohexital		22151-68-4			
	L-Glutamic acid, N-[4-[[(2,4-diamino-6- pteridinyl)methyljmethylamino benzoyl}-				
methotrexate	[CAS]	59-05-2	US 2512572	Anticancer, antimetabolite	Cancer, general
Methotrimeprazine		60-99-1			
Methoxamine		390-28-3		٠	
Methoxsalen		298-81-7		new person	
Methoxyflurane		76-38-0			
Methoxyphenamine		93-30-1	- 14,		
Methoxypromazine		61-01-8		dus Atten	
Methscopolamine		155-41-9			
Methsuximide		77-41-8			
Methyclothiazide		135-07-9			
Methyl Blue		28983-56-4			
Methyl Nicotinate		93-60-7			
Methyl Propyl Ether		557-17-5	····		
Methyl Salicylate		119-36-8			
Methyl tert-Butyl Ether		1634-04-4			
Methylbenzethonium		25155-18-4			
Chloride			<u></u>		
Methylcobalamin	-Tymeine 3-hydmyy-Alpha-methyl	13422-55-4			
methyldopa	[CAS]	555-30-6		Formulation, modified-release, <=24hr Hypertension, general	Hypertension, general
Methylene Blue		61-73-4	 		
Methylergonovine		113-42-8			

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API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
меспупехапеання	2-Piperidineacetic acid, Alpha-phenyl-,	113-45-1				:
methylphenidate	methyl ester [CAS]	298-59-9			Formulation, modified-release, multi	Attention deficit disorder
Methylprednisolone		83-43-2				
	Pregna-1,4-diene-3,20-dione, 21- (acetyloxy)-11-hydroxy-6-methyl-17-(1-			-		
methylprednisolone aceponate	oxopropoxy)-, (6Alpha,118)- [CAS]	86401-95-8	<u> </u>	72547	Antiprunto/inflamm, allergic	Prumus
	Pregna-1,4-diene-3,20-dione, 11,17-					
	dihydroxy-6-methyl-21-[[8-[methyl(2-					
mothylometricolone culentanate	surreemyl)amino-1,e-droxoccylioxyF, monosodium salt (6Albha.118)- [CAS]	90350-40-6	<u>م</u>	59137500	Antiasthma	Asthma
mentyline and and the man			3			
Methylthiouracil		56-04-2				
Methyltrienolone		965-93-5				
Methyprylon		125-64-4				
Methyseraide		361-37-5				
Metiazinic Acid		13993-65-2				-
	Phenol, 4-[2-hydroxy-3-[(1-					
•	methylethylaminojpropoxyj-2,3,6-trimethyl	7 33 7356	a	1206140	cimonapo evisactromitiro	
metipranolol	1-acetate [CA2]	7-00-40077	9	0410071	Anunypertensive, aureneigic	
	Benzamide, 4-amino-5-chloro-N-[2-	964 69 E			ALCAN COOLAND LABOR CARLOS CONTRACTOR	Cactor occombaneal raflix
metoclopramide	(dethylamino)emyl-z-memoxy- [CAS]	304-02-3		,	Formulation, modified-release, <=24nf	Gasuo-Oesophiageai Teliux
Metocurine lodide		7601-55-0				
Metofenazate		388-51-2				
	6-Quinazolinesulfonamide, 7-chloro-					
metolazone	methylphenyl)-4-oxo-[CAS]	17560-51-9	ജ	4517179	Antihypertensive, diuretic	
Metopimazine		14008-44-7				
Metopon		143-52-2				
	2-Propanol, 1-4-(2-	51384-51-1 56302-17-7				
metoprolol	methylethyljamino]-, (+/-)- [CAS]	37350-58-6			Formulation, modified-release, other	Hypertension, general
Metralindole		54188-38-4				
Metrizamide		31112-62-6				
Metrizoic Acid		1949-45-7				
Metron S		13946-02-6				

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API Generic Name	API Chemical Name	CAS No.	Ref	Reference	Example of Therapeutic Use	Example of Indication
Metyrapone		54-36-4				
Metyrosine		672-87-7				
Mexazolam	•	31868-18-5				
Mexenone		1641-17-4				
Mexiletine		31828-71-4				
	4-Thia-1-azabicydo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-6-IIII3-					
	(metry/sulfony/)-2-oxo-1- imidazolidiny/jcarbony/jamino]phenylecety/ 42057-22-7	42057-22-7				
mezłocillin	Jamino}-7-oxo-, [2S- [2Atpha,5Atpha,68(S")]1- [CAS]	51481-65-3 72539-76-5	8	1301961	Penicilin, injectable	Infection, general
MFH-244	Benzenecarboximidic acid, 3,4,5- trihydroxy-, ethyl ester, hydrochloride	95933-76-9	S	4623659	Cardiovascular	Reperfusion injury
miansarin	Dibenzo(c(fpyrazino[1,2-a]azepine, 1,2,3,4,10,14b-hexahydro-2-methyl- [CAS]	21535-47-7 24219-97-4	8	1173783	Antidepressant	Depression, general
Mibefradii		116644-53-2				
Withoutstin		103775-75-3		-		
Micafundin		235114-32-6		****		
	1H.Imidazola 1-/2 A-dichlomohamhan 1-/2 A-					
	dichlorophenyl)methoxyjethyl]					
miconazole		22916-47-8			Formulation, modified-release, other	Infection, Candida, general
Micronomicin	: : : : : : : : : : : : : : : : : : : :	52093-21-7				
midaxifylline	1H-Purine-2, 6-dione, 8-(1- aminocyclopentyl)-3, 7-dihydro-1,3-dipropyl [CAS]	151159-23-8	S	5378844	Cardiovascular	Unspecified
midazolam	4H-Imidazo[1,5-a][1,4]benzodiazepine, 8-chloro-6-(2-fluorophenyl)-1-methyl-[CAS]	59467-70-8 59467-94-6	ရှ	4280957	Anaesthetic, injectable	
midecamycin	Leucomycin V, 3,48-dipropanoate [CAS]	35457-80-8	S	3761588	Macrolide antibiotic	Infection, general
midecamycin acetate	Leucomycin V, 3B,9-diacetate 3,4B-dipropanoate [CAS]	55881-07-7	ᆿ	49124087	Macrolide antibiotic	Infection, general
midesteine	2-Thiophenecarbothioic acid, S-{1-methyl- 2-oxo-2-{(tetrahydro-2-oxo-3- thlenyl)aminojethyl] ester [CAS]	94149-41-4	G _L	120534	COPD treatment	Emphysema, general

API Generic Name	API Chemical Name	CAS No.	Patent Refere	92	Example of Therapeutic Use	Example of Indication
	Acetamide, 2-amino-N-[2-(2,5-dimethoxyphenyl)-2-hydroxyethyl-[CAS]	42318-56-0 42794-76-3	8	164571	Urological	Incontinence
midostaurin	Benzamide, N-(2,3,10,11,12,13-hexahydro- 10-methoxy-9-methyl-1-oxo-9,13-epoxy- 1H,9H-diindolo[1,2,3-gh:3,2,1'- mjpymolo[3,4-ji[1,7]benzodiazonin-11-yl)- N-methyl-, (9Alpha,103,118,13Alpha)- [CAS]	120665-11-2	EP .	296110	Anticancer, other	Cancer, leukaemia, acute myełogenous
mířepristone	Estra-4,9-dien-3-one, 11-[4- (dimethylamino)phenyll-17-hydroxy-17-(1- propynyl)-, (118,178)- [CAS]	84371-65-3	63	57115	Abortifacient	Abortion
miglitol	3,4,5-Piperidinetriol, 1-(2-hydroxyethyl)-2- (hydroxymethyl)-, [2R- (2Alpha,33,4Alpha,56)]- [CAS]	72432-03-2	<u> </u>	55431	Antidiabetic	Diabetes, Type I
miglustat	3,4,5-Piperidinetriol, 1-butył-2- (hydroxymethyl)-(2R-(2Apha, 36, 4Alpha, 56)) [CAS]	72599-27-0	범	2758025	Metabolic and enzyme disorders	Gaucher's disease
8	Hydrazinium, 2-(2-carboxyethyl)-1,1,1- trimethyt-, inner salt- [CAS]	76144-81-5	9	8001068	Cardiostimulant	Heart failure
milnacipran	Cyclopropanecarboxamide, 2- (aminomethyl)-N,N-diethyl-1-phenyl-, cis- (±)-{CAS}	101152-94-7 92623-85-3	s	4478836	Antidepressant	Depression, general
Miloxacin märinone	[3,4'-Bipyridine]-5-carbonitrile, 1,6-dihydro- 2-mettryt-6-oxo- [CAS]	37065-29-5 78415-72-2	S	4313951	Cardiostimulant	Heart failure
mittefosine		53949-20-5 58066-85-6	<u>G</u>	225608	Anticancer, other	Cancer, skin, general
minaprine	4-Morpholineethanamine, N-(4-methyl-6- phenyl-3-pyridazinyl)- [CAS]	25905-77-5 25953-17-7	89	1345880	Antidepressant	Depression, general

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API Generic Name	API Chemical Name	CAS No.	ratent Refere	Reference	Example of Therapeutic Use	Example of Indication
minocordina	2-Naphthacenecarboxamide, 4,7-bis(dimetrylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,10,12,12a-tetrahydroxy-1,11-dioxo-, [4S-(4Alpha,4aAlpha,5a.alpha.,12aAlpha)}-irCASI	10118-90-8			Formulation, optimized, microparticles	Infection, oral
Boid	Phosphonic acid, (1-hydroxy-2- imidazo(1,2-a)pyridin-3-yethylidene)bis-, [CAS]	180064-38-4	<u></u>	354806		Cancer, myeloma
minoxidil	2,4-Pyrimidinediamine, 6-(1-piperidinyl)-, 3-oxide [CAS]		SA	4139619	Vasodilator, peripheral	Hypertension, general
Miokamycin		55881-07-7				
mirtazapine		85650-52-8 61337-67-5	8		Antidepressant	Depression, general
misoprostol	Prost-13-en-1-oic acid, 11,16-dihydroxy-16- methyl-9-oxo-, methyl ester, (11Apha,13E)-(±)-[CAS]	59122-46-2 59122-48-4	<u> </u>	4301146	Prostaglandin	Ulcer, gastric
mitemcinal	Erythramycin, 8,9-didehydro-N-demethyl-9-deoxo-6,11-dideoxy-6,9-epoxy-12-O-methyl-N-(1-methylethyl)-11-oxo-, (2E)-2-butenedioate (2:1) [CAS]	154802-96-7	O _M	9324509	Gastroprokinetic	Gastro-oesophageal reflux
mitglinde Mitobronitol Mitoguazone	Cakcium (2S)-2-benzyl-3-(cis-hexahydro-2- isoindolinylcarbonyl)propionate, dihydrate- [CAS]	145525-41-3 E 488-41-5 459-86-9	<u> </u>	507534	Antidiabetic	Diabetes, Type II
	Galactitol, 1,6-dibromo-1,6-dideoxy- [CAS] 10318-26-0		S	3993781	Anticancer, alkylating	Cancer, cervical

API Generic Name	API Chemical Name Azirno[2,3:3,4jpymolo[1,2-a]indole-4,7-	CAS No.	Patent Reference		Example of Therapeutic Use	Example of Indication
mitomycin	xy]methyl}- rahydro-8a-methoxy-5- rha,8bAlpha)}- [CAS]	50-07-7			Formulation, parenteral, other	Cancer, stomach
Mitotane		53-19-0				
mitoxantrone	9,10-Anthracenedione, 1,4-dihydroxy-5,8-bis[[2-f](2-hydroxyethyf)amiro]ethyf]amiro]-65271-80-9 [CAS]	65271-80-9 70476-82-3	SJ 4	4197249	Anticancer, other	Cancer, breast
mitoxantrone	9,10-Anthracenedione, 1,4-dihydroxy-5,8-bis[[2-[(2-hydroxyethyl)amino]-65271-80-9 [CAS]	65271-80-9 70476-82-9			Formulation, optimized, liposomes	Cancer, general
MIV-210	(3'-Fluoro-2'-3'-dideoxy guanosine)				Antiviral, other	Infection, hepatitis-B virus
	Isoquinofinium, 2,2'-[(1,8-dioxo-4-octene-1,8-diy/)bis(oxy-3,1-propanediy/)bis(12,3,4-tetrahydro-6,7-dimethoxy-2-methyf-1-[(3,4,5-trmethoxyphenyf)methyl)-, dichloride, [R-trmethoxyphenyf)methyl)-, dichloride, [R-trmethoxyphenyf)					
mivacurium	[R*,R*-(E)]]- [CAS]	106861-44-3	<u>.</u> B	181055	Muscle relaxent	Anaesthesia, adjunct
Mivazerol		125472-02-8				
mizolastine	4(1H)-Pyrmidinone, 2-[1-[1-[(4- fluorophenyl)methyl]-1H-benzimidazol-2- yl]-4-piperidinylmethylamino}- [CAS]	108612-45-9	EP 2	217700	Antiallergic, non-asthma	Rhinitis, allergic, general
Mizoribine MKC-733	(R)-N-(3-quinuclidinyl)-7-oxo-4,7- ditydrothieno(3,2-b)pyridine-6- carboxamide hydrochloride	194083-42-0	<u>a</u>	09216888	Gastroprokinetic	Gastro-oesophageal reflux
MLN-519	6-Oxa-2-azabicyclo[3.2.0]heptane-3,7- dione, 1-[(1S)-1-hydroxy-2-methylpropyl]-4- propyl-, (1R,4R,5S)- [CAS] 4 Methylycharzolathhenazine-11-	211866-70-5	6 0 8	9915183	Neuroprotective	Ischaemia, cerebral
MLN-576	carboxylic acd (2-(dinethylamino)-1-(R)-methylethyl)-amide				Anticancer, other	Cancer, general

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API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
moclobemide	morpholinyl)ethyli- [CAS]	71320-77-9	en G	326023	Antidepressant	Depression, general
modafinii	Acētamīde; 2-{(diphenylmethyl)sulfinyl}- [CAS]	68693-11-8	出	2809625	Psychostimulant	Narcolepsy
moexipril	3-Isoquinolinecarboxylic acid, 2-[2-[[1- (ethoxycarbonyl)-3-phenylpropyljamino]-1- oxopropyl]-1,2,3,4-tetrahydro-6,7- dimethoxy- (3S-(2(R*(R*)),3R*))- [CAS]	103775-10-6 103775-14-0	S	4344949	Antihypertensive, renin system	Hyportension, general
Mofarotene Mofebutazone	•	125533-88-2 2210-63-1				
Mofegiline	L) oid A E' bic o office and a A bic (A.	119386-96-8				
mofezolac	methoxyphenyl)- [CAS]	78967-07-4	6	26928	Analgesic, NSAID	Pain, post-operative
	N-{4-(aminomethyl)benzylj-8(S)-{1-{4-{2-{4- aminophenyl}-acetamido]butyryljpiperidin- 4-ylj-2-(naphthalen-1-yimethyl)-1,3-dioxo- 2,3,5,9-tetrahydro-1H-{1,2,4}triazolo[1,2-a]- byridazine-5(R)-carboxamide					
MOL-6131		7416.34.4			Antiasthma	Asthma
Molingone	Sydnone imine, N-(ethoxycarbonyl)-3-(4-	110011				
molsidomine	morpholinyl)- [CAS]	25717-80-0	ജ	3769283	Vasodilator, coronary	
mometasone	Pregna-1,4-diene-3,20-dione, 9,21- dichloro-11,17-dihydroxy-16-methyl-, (118,16Alpha)- [CAS]	105102-22-5 83919-23-7	6	57401	Antipruritic/inflamm, allergic	Psoriasis.
Monatepil Monobenzone		103377-41-9 103-16-2				
monolaurin	Dodecanoic acid, monoester with 1,2,3-propanetriol [CAS]	27215-38-9	S	4885282	Dermatological	Ichthyosis
	Cyclopropaneacetic acid, 1-III1-13-12-(7- Chloro-2-quinolinyl)ethenyljphenylj-3-12-(1-					
montelukast	ingu oxy i - methylethyl)phenyl[propyl[thio]methyl]- [CAS]	151767-02-1 158966-92-8			Antiasthma	Asthma
Monteplase		122007-85-6				

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API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
Monidone		1365-88-8				
mopinaliki						
Moproiol		0/41-22-0				
	Carpainic aco, 110-15-(4-morphounty)-1- oxoomovil-10H-ohenothiazin-2-vil- ethyl	29560-58-5				
moracizine	ester [CAS]	,	S	3864487	Antiarrhythmic	Tachycardia, ventricular
Morazone		6536-18-1				
Moricizine		31883-05-3		,		
Moroxydine		3731-59-7				
Morphazinamide		952-54-5				
	Mombinan 3 B-diol 7 B-didehydro-4 5-	57-27-2 6055-06-7				
morphine		64-31-3			Formulation, parenteral, other	Pain, cancer
morphine-6-glucuronide	morphine-6-glucuronide				Formulation, inhalable, systemic	Pain, general
	Spiro[midazo[1,2-a]pyridine-3(2H),4'-					
	dihydro-5H-dibenz[b,f]azepin-5-					
mosapramine	yllpropyllhexahydro-, (+/-)- [CAS]	98043-60-8	જ	4337260	Neuroleptic	
	Benzamide, 4-amino-5-chloro-2-ethoxy-N-	112885 41-3				
mosapride	morpholinyt)methyl)- [CAS]		<u>6</u>	243959	Gl inflammatory/bowel disorders	Gastritis
	Gedolinium, bis(acetetato-kappaO)(9,10-					-
	diethyl-20,21-bis(2-(2-(2-					
	methoxy)ethoxy)ethoxy)-4,15-dimethyl-					
	benzodiazacycloeicosine-5,14-					
	dipropanalato-kappaN1, kappaN18,					•
	kappaN23, kappaN24, kappaN25), (PB-7-	246262.06.2			Codistantantantantan	Concor Proin
motestann geominum	[242]/12221	2007				
Motretinide		56281-36-8				
Moveltipril		85856-54-8				
Moxalactam	:	64952-97-2				
Moxastine		3572-74-5				
Moxaverine		10539-19-2				
Moxestrol		34816-55-2				

API Generic Name	API Chemical Name	CAS No.	Patent Reference		Example of Therapeutic Use	Example of Indication
тохіїохасіп	3-Quinolinecarboxylic acid, 1-cydopropyl-6- fluoro-1,4-dihydro-8-methoxy-7-(octahydro- 6H-pymolo(3,4-b)pyridin-6-yl)-4-oxo-, hydrochloride (4aS-cis)- [CAS]	186826-86-8 151096-09-2	DE 195	19546249	Quinolone antibacterial	Infection, respiratory tract, general
moxsylyte	thylamino)ethoxyj-2- lethyl)-, acetate (ester),	964-52-3 54-32-0			Male sexual dysfunction	Impotence
moxonidire	5-Pyrimidinamine, 4-chloro-N-(4,5-dihydro- 1H-imidazol-2-yl)-6-methoxy-2-methyl- [CAS]	75438-57-2	DE 284	2849537	Antihypertensive, other	Hypertension, general
M-PGA	(-)-(S)-2-Methyl-2-(1-0xo-2,3-dihydro-1H- isoindol-2-yl)pentanedioic acid			5712291	Anticancer, other	Cancer, general
MPI-5010	Platínum diámminedichloro-, (SP-4-2) + (R)-4-{1-hydroxy-2-(methylamino)-ethyl}-1,2-benzenediol		ns 622	6224883	Formulation, parenteral, other	Cancer, head and neck
	2,4(1H,3H)-Pyrimidinedione, 5-fluoro- [CAS]		375 SU	5750146	Formulation, parenteral, other	Cancer, breast
MPL MRS-1754		198076-81-2	8 8	6060481	Immunostimulant, other Antiasthma	Vaccine adjunct Asthma
MS-209	1-Piperazineethanol, 4-(diphenylacetyl)- Alpha-[(5-quinolinyloxy)methyl]-, (2E)-2- butenedioate(2:3) (salt) [CAS]	158681-49-3			Radio/chemosensitizer	Cancer, breast
MS-275	N-(2-Aminophenyl)-4-[N-(pyridin-3-yl-methoxycarbonyl)aminomethyljbenzamide				Anticancer, antimetabolite	Cancer, lung, general
MS-325 US-377 Munimodin		201688-00-8 12650-69-0	면 83	839805	Neuroleptic	Schizophrenia
Muscarine Muzolimine MX-1013			US 618	6153591	Hepatoprotective	Unspecified

API Generic Name	API Chemical Name	CAS No.	Patent Refere	nce	Example of Therapeutic Use	Example of Indication
mycophenolate mofetil	6-methoxy-7-methyl-3-oxo-5- isobenzofuranyl)-4-methyl-, 2-(4- morpholinyl)ethyl ester, (E)- [CAS]	116680-01-4 128794-94-5	W W	9119498	Immunosuppressant	Transplant rejection, general
mycophenolic acid	4-hexanoic acid, 6-(1,3-dihydro-4-hydroxy-6-methoxy-7-methyl-3-oxo-5-isobenzofuranyl) 4-methyl-,	37415-62-6 24280-93-1			Formulation, oral, enteric-coated	Transplant rejection, general
Myrophine N- Hydroxymethyl)nicotina	·	3569-99-1				·
mide N,N,N',N'- Tetraethylphthalamide Nz-Formylsuffisomidine		83-81-8 795-13-1	•			
N4-β-o- Glucosylsulfanilamide N4- Sulfanilylsulfanilamide		53274-53-6 547-52-4			·	
Nabilone nabumetone N-acetykrysteine N-Acetylmethionine	2-Butanone, 4-(6-methoxy-2-naphthalenyl)- [CAS] L-Cysteine, N-acetyl- [CAS]	51022-71-0 42924-53-8 616-91-1 65-82-7	68	1476721	Anti-inflammatory Anticancer, other	Arthritis, osteo Cancer, general
nadifloxacin	1H,5H-Benzo[ij]quinolizine-2-carboxylic acid, 9-fluoro-6,7-dihydro-8-(4-hydroxy-1- piperidinyl)-5-methyl-1-oxo-, (+/-)- [CAS]	124858-35-1	Sn	4399134	Quinolone antibacterial	Acne
nadokol Nadoxofol	2,3-Naphthalenediol, 5-[3-[(1,1-dimethylethyl)amino]-2-hydroxypropoxy]-1,2,3,4-tetrahydro-[CAS]	42200-33-9 54063-51-3	SU	4346106	Antihypertensive, adrenergic	

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AFI Generic Name	Ari Cilellinea Maille Benzoic acid, 4-					
	thyl)aminoJ-, 6- hyl)-2-naphthalenyl ester-					
nafamostat	[CAS]	82956-11-4	<u> </u>	450232	GI inflammatory/bowel disorders	Fancreauus
	Luteinizing hormone-releasing factor (pig), 76932-56-4					
nafarelin	6-[3-(2-naphthalenyl)-D-alanine]-[CAS]		<u></u>	21234	Releasing hormones	Endometriosis
Nafcillin		147-52-4				
Nafronyl		31329-57-4				
	2-Furanpropanoic acid, tetrahydro-Alpha- (1-naphthalenylmethyl)-, 2-					
naftidrofuryl	(diethylamino)ethyl ester	31329-57-4			Formulation, modified-release, other	Unspecified
naftifine	1-Naphthaleneiriethanamine, N-methyl-N- (3-phenyl-2-propenyl)-, (E)- [CAS]	65472-88-0 65473-14-5	S	4282251	Antifungal	Infection, dermatological
naftopidii	1-Piperazineethanol, 4-(2-methoxyphenyl)-Abha-[(1-naphthalenyloxy)methyl- [CAS]	57149-07-2	S	3997666	Antihypertensive, adrenergic	Hypertension, general
	Mombines 3 & 14 trial 17.					
netbuphine	(cyclobutyfmethyl)-4,5-epoxy-, (SAlpha,6Alpha)- (CAS)	20 594- 83-6 23 <i>277-</i> 43-2	જ	3393197	Analgesic, other	Pain, general
Nalidixic Acid		389-08-2				
natmefene	Morphinan-3,14-diol, 17- (cyclopropytmethyl)-4,5-epoxy-6- methylene-,(5Alpha)-[CAS]	55096-26-9	<u> </u>	56167687	Dependence treatment	Poisoning, drug
Nalorphine		62-67-9				
паюхопе	Morphinan-6-one, 17-allyl-4,5Alpha-epoxy-357-08-4 3,14-dihydroxy-, hydrochloride [CAS] 465-65-6	357-08-4 465-65-6			Septic shock treatment	
naltrexone	Morphinan-6-one, 17-(cyclopropylmethyl)- 16590-41-3 4,5-epoxy-3, 14-dihydroxy-, (5Alpha)-[CAS] 16676-29-2		೫	3332950	Dependence treatment	Addiction, narcotic/opiate
NAMI	ImGazolium trans(imidazole)(dimethylsulfoxide)tetrachl ororuthenate (III)			· · · · · · · · · · · · · · · · · · ·	Anticancer, other	Cancer, general

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API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
naminidil	Guanidine, N-cyano-N'-(4-cyanophenyl)- N"-[(1R)-1,2,2-trimethylpropyl]-[CAS]	220641-11-2			Dematological	Alopecia, general
Nandrolone		434-22-0				
Naphazoline		835-31-4				
Naphthalene		91-20-3				
	Methanaminium, 1-carboxy-N, N, N- trimethyl- salt with (R)-6-methoxy- Alpha- mathul-2-nanhthalenaacetic acid (1:1)					
naproxen betainate	sodium salt [CAS]	7	2	4672077	Antiarthritic, other	Arthritis, meumatoid
ларгожел	2-Naphthaleneacetic acid, 6-methoxy- Alpha-methyl-, [CAS]	26159-34-2 22204-53-1	8	1211134	Analgesic, NSAID	Pain, general
naratriptan	1H-Indole-5-ethanesulfonamide, N-methyl-3-(1-methyl-4-piperidinyl)- [CAS]	121679-13-8	85	303507	Antimigraine	Migraine
Narceine		131-28-2				
Narcobarbital		125-55-3				
Natamycin		7681-93-8				
abicilocaton	D-phenylalanine, N-((4-(1-methylethyl)cyclohexyl)carbonyl)-, trans- ICAS1	105816-04-4	a	196222	Antidiabetic	Diahetes Tyne II
N-Butyldeoxynojirimycin		72599-27-0				
ż	•	149-64-4				
Butylscopolammonium Bromide		·				
NC-503			ജ	5643562	Anti-inflammatory	Amyloidosis
NC-531			ಇ	5643562	Cognition enhancer	Alzheimer's disease
NCX-1000			8	0061604	Hepatoprotective	Cirrhosis, hepatic
NCX-4016	Benzoic acid, 2-(acetyloxy)-, 2- ((nitrooxy)methyl)phenyl ester [CAS]	175033-36-0	8	9716405	Symptomatic antidiabetic	Insulin-related metabolic syndrome
NCX-456	Benzoic acid, 5-amino-2-hydroxy-, 4- (nitrooxy)butyl ester [CAS]	256499-26-0			Gl inflammatory/bowel disorders	Inflammatory bowel disease

API Generic Name	API Chemical Name	CAS No.	Patent Reference	nt ence	Example of Therapeutic Use	Example of Indication
NCX-950	Alpha -[[(1,1-dimethylethyl)amino]methyl] 4 hydroxyl-1,3-benzenedimethanol nitrate				Antiasthma	Asthma
n Dorneannl		661-19-8				
NE-100	Benzeneethanamine, 4-methoxy-3-(2- phenylethoxy)-N,N-dipropyl-, hydrochloride (CAS)	149409-57-4	0 <u>M</u>	9307113	Neuroleptic	Schizophrenia
Nealbarbital		561-83-1				
	2H-1-Benzopyran-2-methanol, Apha Abha -[iminobis(methytene)]bis(6- fluoro-3,4-dihydro]-, (2R*(R*(R*(S*)))))(1+)-118457-14-0 incasi	118457-14-0 99200-09-6	9	145067	Antivoedensive adreneraic	Hypertension, general
nebostinel	NT-(4,4-Dimethylcyclohexyl)-L-isoglutamine	163000-63-3		0688312		Unspecified
Nebracetam		97205-34-0				
nedaplatin	Platinum, diammine[hydroxyacetato(2-)- O1,O2}-, (SP-4-3)- [CAS]	95734-82-0	G.	216362	Anticancer, alkylating	
пефостотії	4H-Pyrano(3,2-g/quinoline-2,8-dicarboxylic acid, 9-ethyl-6,9-dihydro-4,8-dioxo-10- propyl- [CAS]	69049-73-6 69049-74-7	<u> </u>	555718	Antasthma, Ophthalmological	Rhinitis, allergic, general, Ocular disorder, general
nefazodone	3H-1,2,4-Triazol-3-one, 2-{3-{4-{3-} chlorophenyl}-1-piperazinyl[propyl]-5-ethyl- 82752-99-6 2,4-dihydro-4-{2-phenoxyethyl}-, [CAS] 83366-66-9	82752-99-6 83366-66-9	S S	4338317	Antidepressant	Depression, general
nefiracetam	1-Pyrroidineacetamide, N-(2,6-dimethyphenyl)-2-oxo- [CAS]	77191-36-7	. <u>s</u>	4341790	Cognition enhancer	Dementia, senile, general
nefopam	1H-2,5-Benzoxazocine, 3,4,5,6-tetrahydro- 5-methyt-1-phenyt- [CAS]	13669-70-0 23327-57-3	s S	3487153	Analgesic, NSAID	
Negamycin		33404-78-3				
nelfinavir	3-fsoquinolinecarboxamide, N-(1,1-dimethylethyl)decahydro-2-(2-hydroxy-3-(3-hydroxy-2-methylbenzoyl)amino)-4-(phenyithio)butyl)-, (3S-(2(2S*,3S*),34pha,4aß,8aß))-, [CAS]	159989-65-8 159989-64-7			Antiviral, anti-HIV	Infection, HIV/AIDS
Nemonapride		75272-39-8		ı		
Neostigmine		59-99-4				

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API Generic Name		CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
	eucyt-N-[2-		_			
	(acetylamino)-2-deoxy-6-D-					
	glucopyranosyfl-L-asparaginyl-L-Alpha-					
	aspartyt-L-tryptophyt-L-phenylalanyll, (4-1)					
nepadutant			8	9628467	Antiasthma	Asthma
	1,3,3,5,5-pentamethylcyclohexylamine	202807-80-5				
neramexane		219810-59-0			Dependence treatment	Addiction, alcohol
	Phosphonic acid, (6-amino-1-					
neridronic acid	hydroxyhexylidene)bis- [CAS]	79778-41-9			Musculoskeletal	Osteogenesis imperfecta
Nerlifolin		466-07-9				1
N-Ethylamphetamine		457-87-4				
	1H-Imidazole, 1-[2-(methyrthio)-1-[2-		·	•		
neticonazole	(pentytoxy)phenyjethenyj-, monohydrochloride, (E)- [CAS]	130773-02-3 130726-68-0	81	445540	Antifungal	Infection, Candida, general
	P. Streetsmine O.3-deox. 4-C. methyl.3-			:		
	(methylamino)-E4-arabinoovranosyl-(1-6)-					
	O-12 6-diamino-2.3.4.6-tetradeoxy-Alpha-D					
	glycero-hex-4-enopyranosyl-(1-4)]-2-deoxyl-56391-56-1	36391-56-1				
netilmicin	N1-ethyt-[CAS]		89	1473733	Aminoglycoside antibiotic	Infection, general
	6H-Dipyrido(3,2-b:2,3-e)[1,4)dlazepin-6-		-	:		:
	one, 11-cyclopropyl-5,11-dihydro-4-methyl-					
nevirapine	[CAS]	129618-40-2		429987	Antiviral, anti-HIV	Infection, HIV/AIDS
NGD-98-2			ş	9635689	Andolytic	Anxiety, general
Nialamide		51-12-7		:		
Niaprazine		27367-90-4		; ; i	:	
Nicametate		3099-52-3		1		
	le, N,N'-(1-methyt-1,2-					
nicaraven	ethanediy/jbis- [CAS]	79455-30-4	<u>а</u>	29602	Neuroprotective	Haemormage, subarachnoid
	3 5-Purdinadicarboxviic acid 1 4-dihvdra-					
	/(phenyimethyl)aminojethyl ester				:	
nicardipine		55865-32-5	S	3985758	Neuroprotective	Hypertension, general
	Ergoline-8-methanol, 10-methoxy-1,6-dimethyl-, (8/b)-, 5-bromo-3-			· !		
	(ester)					
nicergoline		27848-84-6			Formulation, modified-release, other	Unspecified

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API Generic Name	API Chemical Name	CAS No.	Reference	ence	Example of Therapeutic Use	Example of Indication
Niceritrol		5868053				
Niclosamide		50-65-7		! : :		
Nicoclonate		10571-59-2	-	: ;		
Nicofuranose		15351-13-0	 	:	•	
Nicomol		27959-26-8	-	:		
Nicomorphine		639-48-5		;		
nicorandil	3-Pyndinecarboxamide, N-[2- (nitrooxy)ethylj- [CAS]	65141-46-0	SD	4792564	Vasodilator, coronary	Hypertension, general
Nicotinamide		98-92-0	1			
	Pyridine 3-(1-methyl-2-ovrrolidinyl)- (S)-		+	•		
nicotine	[cAs]	54-11-5			Formulation, inhalable, other	Addiction, nicotine
Nicotinic Acid	the same makes the same the same to be same	59-67-6	 			!
Nicotinic Acid Benzyl		94-44-0		:		
Ester						
Nicotinyl Alcohol		100-55-0	<u>i </u>			1
	4-(2'-nitrophenyl)-2,6-dimethyl-3,5-		!	!	:	;
nifedipine		21829-25-4	8	1173862	Vasodilator, coronary	Hypertension, general
	2,4(1H,3H)-Pyrimidinedione, 6-[[2-[(2-		-			
	hydroxyethy) 3-(4- njmahamilamoulaminolathylaminol 1 3 120628 43 0	430626 42.0				
nifekalant	dimethyl. [CAS]		<u>ස</u>	369627	Antiamhythmic	Arrhythmia, general
Nifenalol		7413-36-7	<u> </u>	- :	•	
Niffumic Acid		4394-00-7	-	: 		
Nifuratel		4936-47-4	İ	:	,	
Nifurfoline		3363-58-4	i	ì	•	:
Nifuroxazidə		965-52-6	İ	:	:	
Nifuroxime		6236051	-	:		
Nifurpirinol		13411-16-0	-	:	:	
Nifurprazine		1614-20-6	-		: : : : : : : : : : : : : : : : : : : :	
Nifurtimox		23256-30-6		 : :		
Nifurtoinol		1088-92-2	 	i :	• • • • • • • • • • • • • • • • • • • •	
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API Generic Name	API Chemical Name	CAS No.	Refer	Reference	Example of Therapeutic Use	Example of Indication
	2-Thiophenecarboxylic acid, 5-nitro-, [3-(5-nitro-2-furanyl)-2-propenylidene]hydrazide		_			
nifurzide	[cvs]	39978-42-2 L	<u>ဧ</u>	3847911	Antidiarrhoeal	Infection, GI tract
NIK-254	Gentamicin, sulfate (satt) [CAS]	1405-41-0	 	İ	Formulation, other	Infection, general
Nikethamide		59-26-7	!			
nikrtamide	2,4-Imidazolidinedione, 5,5-dimethyl-3-[4- nitro-3-(trifluoromethyl)phenyl-[CAS]	63612-50-0	ನ 4	4472382	Anticancer, hormonal	Cancer, prostate
nikvadipine	3,5-Pyridinedicarboxylic acid, 2-cyano-1,4-dihydro-8-methyl-4(3-nitrophenyl)-, 3-methyl 5(1-methylethyl) ester [CAS]	75530-68-6	स्	4338322	Anthypertensive, other	Hypertension, general
nimesulide	Methanesulfonamide, N-(4-nitro-2-phenoxyphenyl)- [CAS]	51803-78-2	S S	3840597	Anti-inflammatory	Pain, general
Nimetazepam		2011-67-8				4 · · · · · · · · · · · · · · · · · · ·
nimodipine	3,5-Pyridinedicarboxylic acid, 1,4-dihydro- 2,6-dimethyl-4-(3-nitrophenyl)-, 2- methoxyethyl 1-methylethyl ester [CAS]	66085-59-4	<u></u>	533014	Neuroprotective	
Nimorazole		6506-37-2	İ	•		:
nimusüne	Urea, N-[(4-amino-2-methyl-3- pyrimidinyl)methyl-N-(2-chloroethyl)-N- nitroso-[CAS]	103745-00-2 42471-28-3 55661-38-6	. <u> </u>	1374344	Anticancer, alkylating	Cancer, brain
Ninopterin		2179-16-0		:		:
NIP-142	N-[4(S)-(Cyclopropylamino)-3-(R)-hydroxy- 2,2-dimethyl-7-nitro-3,4-dihydro-2H-1- benzopyran-6-yl-4- methoxybenzeneacetamide		Q ₁	9804542	Antianthythmic	Fibrillation, atrial
NIP-631	** - :		i		Antipruritic/inflamm, allergic	Eczema, atopic
niperotidine	N-[2-[[5- [(dimethylamino)methylflurfuryl]thiojethyl]- 2-nitro-N-piperonyl-1,1-ethenediamine	84845-75-0	GB 2	2104071	Antiuloer	Ulcer, Gl, general

API Generic Name	API Chemical Name	CAS No.	Patent Referen	Patent Reference	Example of Therapeutic Use	Example of Indication
		,				
	2H-1-Benzopyran-3-ol, 3,4-dihydro-8-[2-					
	hydroxy-3-{(1-methylethyl)amino]propoxy}- 81486-22-8		ć	7000		
npradioi	, shirtate [CAS]		ח ד	42233	Formulation, mucosal, topical	Сіалсота
Niridazole		61-57-4				
	3,5-Pyridinedicarboxylic acid, 1,4-dihydro-					
ocici proje	z.o-amemyr4-(z-muophenyr)-, memyr z- mothylomyd oster (CAS)	63675_72.9	ä	1516703	Antihunariansiva other	Hypertension general
	Renzemide 2-JacebyloxyLN-/5-nitro-2-	Ī	}	3		
nitazoxanide	thiazolyl-[CAS]	55981-09-4	S	5387598	Protozoacide	Infection, GI tract
	1,3-Cyclohexanedione, 2-[2-nitro-4-					:
nitisinone	:	-7	ᇤ_	186118	Metabolic and enzyme disprders	Cirrhosis, hepatic
	N-dimethyl-N'-(1-	4533-39-5	. 6			
nigactine	חוונס-ע-פכחמווואי)- (כלכי)		ĭ	1456183	Anacancer, ourer	Cancer, ovarian
Nitrazepam		146-22-5				
	3,5-Pyridinedicarboxylic acid, 1,4-dihydro-					
	trophenyl)-, ethyl					
nitrendipine		39562-70-4	3	1358951	Antihypertensive, other	Hypertension, general
	(1,1'-Biphenyl) 4-acetic acid, 2-fluoro-					
	Apha-methyl-, 4-(nitrooxy)butyl ester		-			:
nitroflurbiprofen		φ	EP	670825	Urological	Incontinence
Nitrofurantoin		67-20-9				-
one		59-87-0				
nitroglycerin	1,2,3-Propanetriol, trinitrate [CAS]	55-63-0			Formulation, transdermal, patch	Angina, general
Nitromersol		133-58-4				
	2-Napthaleneacetic acid, 6-methoxy-Alpha					
nitronaproxen	(CAS)	163133-43-5	Ş	9509831	Analoesic NSAID	Pain. post-operative
	rlb ff1 4loxazeoir-11(10H)-one 10-	T				
	[3-(dimethylamino)propyl]-2-nitro-,					
nitroxazepine	monohydrochloride [CAS]	16398-39-3	뒱	6608671	Antidepressant	
Nitroxoline		4008-48-4				
	1,1-Ethenediamine, N-[2-[[[2-			-		 ,
-	V-methyl-2-				-	
nizatidine		76963-41-2	G.	49618	Antiulcer	Ulcer, duodenal

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API Generic Name Nizofenone	API Chemical Name	CAS No. 54533-85-6	Refe	Reference	Example of Therapeutic Use	Example of Indication
	3-(2-methylcarboxymethyl)-6-methoxy-8- hydroxy-isocoumarin		읔	08176138	Anticancer, other	Cancer, general
NM-702	4-Bromo-5-(3-pyridy/methylamino)-6-[3-(4- chlorophenyl)propoxy]-3(2H)pyridazinone hydrochloride				Antithrombotic	Peripheral vascular disease
N-Methylephedrine N-Methylepinephrine N-Methylglucamine		552-79-4 554-99-4 6284-40-8				
NN-414	6-chloro-3-(1-methylcyclopropylamino)-4H- thieno[3,2-e]-[1,2,4]thlediazine-1,1-dioxide			1	Antidiabetic	Diabetes, Type II
NNC-05-1869	(R)-1-(3-(10,11-dihydro-5H- dibenzoja,djoydohepten-5-ylidene)-1- propyl)-3-ptperidine carboxylic acid				Symptomatic antidiabetic	Neuropathy, diabetic
Nogalamycin nolatrexed	4(1H)-Quinazolinone, 2-amino-6-methyl-5- (4-pyndinythio)-, [CAS]	1404-15-5 152946-88-4 147149-76-6	Ş	9320055	Anticancer, antimetabolite	Cancer, liver
nołomirole	Propanoic acid, 2-methyl-, 5,6,7,8- tetrahydro-6-(methylamino)-1,2- naphthalenediyl ester, hydrochloride, (+/-)- [CAS]	138531-51-8	. 0	9529147	Cardiostimulant	Heart failure
nolpitantium	1-Azoniabicyclo[2.2]octane, 1-[2-[3-(3,4-dichlorophenyl)-1-[[3-(1-methylethoxy)phenyl]acetyl[-3-piperidinyl]ethyl]-4-phenyl-, chloride, (S)-[CAS]	153050-21-6	8	591040	GI inflammatory/bowel disorders	Inflammatory bowel disease
потедеято	19-Norpregna-4,6-diene-3,20-dione, 17- (acetyloxy)-6-methyl- [CAS]	58652-20-3	빙	2522533	Menstruation disorders	Menstrual disorder, general
Nomifensine Noprylsulfamide Norbolethone		24526-64-5 576-97-6 1235-15-0				·

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API Generic Name Nordazepam	API Chemical Name	CAS No. 1088-11-5	Reference	Example of Therapeutic Use	Example of Indication
Nordefrin		6539-57-7 (unspecified);			
		/4612-63-6 (R*,S*)-(±)- form	 .		
Nordihydroguaiaretic Acid		27686-84-6 (meso-form); 500-38-9 (unspecified)	,		
Norelgestromin, Ethinyl Estradiol					
Norepinephrine		51-41-2 52.78.8			
Norethindrone		68-22-4			
Norethynodrel Norfenefrine		68-23-5 536-21-0			
porfloracin	3-Quinolinecarboxylic acid, 1-ethyl-6-fluoro-68077-27-0 14-dihydro-4-oxo-7-(1-piperaziny)- [CASI 70458-86-7	68077-27-0 70458-96-7	US 4146719	Ouinolone antibacterial	Infection, general
Norgesterone		13563-60-5			
Norgestimate		35189-28-7	:		
Norgestrienone ·		848-21-5			
Nortevorphanol Normethadone		1531-12-0 467-85-6			
Normethandrone		514-61-4			
Normorphine Normhenazone		466-97-7 89-25-8			
Norpipanone		561-48-8			
Norpseudoephedrine Nortriptyline		492-39-7 72-69-5			
Norvinisterone		6795-60-4			

ADI Conorie Namo	API Chemical Name	CASNO	Patent Reference	Example of Therapeutic Use	Example of Indication
Noscapine		:			
Novembichin		1936-40-9			
Novobiocin		303-81-1			
Noxiptilin		3362-45-6			
Noxythiolin		15599-39-0			
	Butanoic acid, 2-III5-[4- [(dimethylamino)sulfonyljphenylj- 1,2,6,7,8,9-hexahydro-8-methyl-2-oxo-3H- byrmoi3,2-hisoquinolin-3-				
NS-1209	ylidene]amino]oxy]-3-hydroxy- [CAS]	254751-28-5	WO 9426747	Antiepileptic	Epilepsy, general
	5-(4-chlorophenyl)-6,7,8,9-tetrahydro-1H- pyrolo-(3,2-h]naphthalene-2,3-dione-3- oxine		•		
NS-1231				Neuroprotective	Ischaemia, cerebral
NS-128			US 5063222	Antiallergic, non-asthma	Rhinitis, allergic, general
	2-Methyl-c-5-[4-[5-methyl-2-(4-methylphenyl)-4-oxazolyl[butyl]-1,3-dioxane-1-2-carboxvlic ecid				
NS-220			·—-,-	Hypolipaemic/Antiatherosclerosis	Atherosclerosis
NS-2330	NS 2330 [CAS]	402856-42-2		Cognition enhancer	Alzheimer's disease
NSSA inhibitors			US 6030785	Antiviral, other	Infection, hepatitis-C virus
NS-7	Pyrimidine, 4-(4-filuorophenyl)-2-methyl-6- [[5-(1-piperidinyl)pentyljoxy]-, monohydrochloride [CAS]	178429-67-9	WO 9607641	Neuroprotective	Ischaemia, cerebral
89X	2-Amino-5-(2-fluorophenyl)-4-methyl-1H- pymole-3-carbonitrile		·	Urokaica	ncontinence
NSC-330507	17-Allylaminogeldanamycin		. μ τ − τ	Anticancer, antibiotic	Cancer, general
NSC-619534	2-chloroethyl phenyl selenone			Anticancer, alkylating	Cancer, general
NCC 607736	2,5-diazinidinyl-3-[hydroxymethy]6-methyl- 1,4-benzoquinone		· · · · · · · · · · · · · · · · · · ·	A state of the sta	
N-Sulfanilyl-3,4-		120-34-3	· · · · · · · · · · · · · · · · · · ·		- Agreed
xylamide					

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API Generic Name		CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
			_			
NU-6027	(cyclohexylmethoxy)-5-nitroso-[CAS]	220036-08-8			Anticancer, other	Cancer, general
NV-07	2,4,6(1H,3H,5H)-Pyrimidinetrione, 5-ethyl- 5-sec-pentyl-, 2-oxime [CAS]	53745-16-7	ജ	6455032	Antipruritic/inflamm, non-allergic	Keratosis
	([3R,4aR,10aR]-1,2,3,4,4a,5,10,10a- Octahydro-6-methoxy-1-methyl- benz[g]quinoline-3-carboxylic acid 4-(4- nitrophenyl)piperazine amide, hydrogen					
NVP-SRAB80					Neurological	Unspecified
	(\$)+(+)-2-[4-(2- fluorobenzyloxy benzylamino]propanamid e methansulfonate					
					Analgesic, other	Pain, general
NXY-059	CPI ŹZ [CAS]	168021-79-2	ട്ട	5780510	Neuroprotective	Ischaemia, cerebral
Nylidrin		447-41-6				-
NZ-314	1-Imidazolidineacetic acid, 3-((3- nitrophenyl)methyl]-2,4,5-trioxo- [CAS]	128043-89-2	8	353198	Symptomatic antidiabetic	Neuropathy, diabetic
NZ-419	5-hydroxy-1-methylimidazolidine-2,4-dione		<u>a</u>	412940	Urological	Renal failure
Obidoxime Chloride	•	114-90-9				-
	OC 108 [CAS]	162602-62-2			Vasoprotective, topical	Venous insufficiency
ocinaplon	Methanone, 2-pyridinylf7-(4- pyridinyl)pyrazoto[1,5-a]pyrimidin-3-yl}- [CAS]	96604-21-6	<u> </u>	129847	Anxiolytic	Generalized anxiety disorder
Octabenzone	•	1843-05-6				
Octacalne		13912-77-1				-
Octamoxin		4684-87-1				•
Octaverine		549-68-8				
octenidine	1-Octanamine, N.N*(1,10-decanediyldi- 1(4H)-pyridinyl-4-yfidene)bis- [CAS]	70775-75-8 71251-02-0 86767-75-1	. <u>o</u>	WO 8705501	Stomatological	Periodontitis
Octodrine		543-82-8				
Octopamine		104-14-3				•
Octotiamine		137-86-0				

API Generic Name		CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
	L-Cysteinamide, D-phenylalanyl-L- cysteinyl-L-phenylalanyl-D-tryptophyl-L- lysyl-L-threonyl-N-{2-hydroxy-1- (hydroxymethylpropyl)-, cyclic (2-7)-					
octreotide	disulfide, [R-(R-,R")]- [CAS]	83150-76-9			Formulation, fixed-dose combinations	Cancer, general
Octyl		5466-77-3				
Methoxycinnamate						
	7H-Pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxylic acid, 9-fluoro-2,3-diltydro-3-carboxylic acid, 1-december 1,2-diltydro-2,					
ofloxacin	(+/-)- [CAS]	82419-36-1	G.	47005	Quinclone antibacterial	
o-lodohippurate	.;	133-17-5				
	10H-Thieno(2,3-b)(1,5)benzodiazepine, 2-	420,004	g	967730	41	
овлгаряю		1-00-600761	b	8	Meniorepuc	Sanzopmema
Oleandrin		465-16-7				
Oleic Acid		112-80-1				
	1H-Imidazole-5-carboxylic acid, 4-(1-hydroxy-1-metrylethyl)-2-propyl-1-((Z-(1H-tetrazol-5-yl)(1,1'-biphenyl)-4-yl)methyl)-,					
ołnesartan medoxomił	(5-methyl-2-oxo-1,3-dioxol-4-yl) methyl ester [CAS]	144689-63-4	ណ	503785	Antihypertensive, renin system	Hypertension, general
olopatadine	11-[(Z)-3-(Dimethylamino)propylidene}- 6,11-dihydrodibenz[b,9]oxepin-2-acetic acid, monohydrochloride	113806-05-6 140462-76-6	· &	235796	Ophthalmological	Conjunctivitis
	Monosodium 3-dimethylamino-1-					
opadronic acid	(nydroxypaopyuoene)-1, 1-ospinospinoriais	63132-39-8	§.	9619998	Osteoporosis treatment	Osteoporosis
oksakazine	15/22-48-2 Benzoic acid, 3,3'-azobis[6-hydroxy- [CAS] 53200-51-4	15/22-48-2 53200-51-4	S	4559330	GI inflammatory/bowel disorders	Colitis, utcerative
oltipraz	3H-1,2-Utinote-3-thone, 4-metryl-5- pyrazinyl- [CAS]	64224-21-1	삠	2705641	Anticancer, other	Cancer, general

API Generic Name	API Chemical Name	CAS No.	Patent Referen	Patent Reference	Example of Therapeutic Use	Example of Indication
OM-294DP	2-[3(R)-{Dodecanoyloxy)tetradecanamido]- N-[4-[3(R)-hydroxytetradecanamido]-5- (phosphonooxy)pentyl]-4- (phosphonooxy)butyramide				Anticancer, immunological	Unspecified
Отасог	ethyl (52,82,112,142,172)-eicosa- 5,8,11,14,17-pentsenoets + ethyl (42,72,102,132,162,192)-docosa- 4,7,10,13,16,19-hexaenoets	81926-94-5 86227-47-6			Hypolipaemic/Antiatherosclerosis	Hypertriglycendaemia
omapatrilat	7H-Pyrido(2,1-b)(1,3)thiazepine-7-carboxylic acid, octahydro-4-((2-mercapto-1-oxo-3-phenypropyl)amino)-5-oxo, (4S-(4Apha(R¹),7Alpha,10aß))- [CAS]	167305-00-2	s	5508272	Antihypertensive, renin system	Hypertension, general
omeprazołe	1H-Benzimidazole, 5-methoxy-2-[[(4-methoxy-3,5-dimethyl-2.pyridinyl)methyl[sulfinyl-] [CAS]	73590-58-6	ജ .	4255431	- Antiuleer	Ulœr, Gl, general
omiloxetine	(1,3-benzodioxol- ophenyl)-1- anyl)-, rel- [CAS]	176894-09-0			Antidepressant	Depression, general
omoconazole	1H-Imidazole, 1-{2-{2-{4-}} chlorophenoxy)ethoxy}-2-{2,4-} dichlorophenyl)-1-methylethenyll-, (Z)- [CAS]	·	<u> </u>	9804	Antifungal	Infection, dermatological
Onapristone ondansetron	4H-Carbazol-4-one, 1,2,3,9-tetrahydro-9-methyt-3-{(2-methyt-1H-imidazol-1-yl)methyf)- [CAS]	96346-61-1 99614-01-4 99614-02-5	<u>s</u>	4847281	Antiemetic	Chemotherapy-induced nausea and vomiting
ONO-3403	Benzoic acid, 4-[(1E)-3-[(2-ethoxy-2-oxoethyl)-2-propenylamino]-2-methyl-3-oxo-1-propenyl)-, 4-(aminoiminomethyl)phenyl ester, monomethanesulfonate [CAS]	181586-07-2			Gl Inflammatory/bowel disorders	Unspecified

API Generic Name	API Chemical Name 1,4,9-Triazaspiro(5,5)undecane-2,5-dione,	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
ONO-4128	1-butyl-3-(cyclohexytmethyl)-9-((2,3-dihydro-1,4-benzodioxin-6-yl)methyl-[CAS]	342394-93-8			Antiviral, anti-HIV	Infection, HIV/AIDS
	L-lysine (2)-7-{(1R,2R,3R,5R)-5-chloro-3-hydroxy-2-{(E)-(S)-4-(1-ethylcydobutyl)-4-hydroxy-1-butanyl]cydopentyl]-5-hebenoate					
ONO-8815 Ly			2	5756527	Labour inhibitor Radio/chemosensitizer	Labour, preterm Cancer, general
OPC-14523	2(1H)-Quinolinoire, 1-[3-[4-(3-chlorophenyl)-1-piperazinylipropyl]-3,4-dihydro-5-methoxy- [CAS]	145969-30-8		512525	Antidepressant	Depression, general
OPC-31260	Benzamide, N-{4-I[5-(dimethylamino)-2,3,4,5-tetrahydro-1H-1-benzazapin-1-yl[carbonyl[phenyl]-2-methyl-	137975-06-5	Ş Ş	9105549	Urokogical	Unspecified
OPC-51803	(5R)-2-(1-(2-chloro-4-(1- pyroiidinyl)benzoyl)-2,3,4,5-tetrahydro-1H- 1-benzazepin-5-ylj-N-tsopropylacetamide				Antidiabetic	Diabetes, insipidus
OPC-6535	2-Pyńdinecarboxylic acid, 6-[2-(3,4-diethoxyphenyl)-4-thiazolyl]- [CAS]		8	9209586	GI infammatory/bowel disorders	Inflammatory bowel disease
Opiniazide opioid analoesics	2-(4-trifluoromethythenyl)-N-metnyl-[1- phenyl-2-(1-pyrolidinyl)ethylacetamide	2779-55-7			Analgesic, other	Pain, general
Opipramol Orazamide		315-72-0 2574-78-9				
orazipone	2,4-Pentanedione, 3-((4- methylsulfonyl)phenyl)methylene)- [CAS]	137109-78-5	8	440324	Antiasthma	Unspecified
Org-12962 Org-24448	Piperazine, 1-{6-chloro-5-(trifluoromethyl)- 2-pyridinyl}-, monohydrochloride [CAS]	210821-63-9	81	6166008	Antidepressant Neuroleptic	Depression, general Schizophrenia

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API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
	Vancomycin, 22-O-(3-amino-2,3,6-trideoxy-3-C-methyl-Alpha-L-arabino-					
	hexopyranosyl)-N3"-[(4"-chloro[1,1"-	474000 57 9	<u> </u>	7070607		lectrodeterment actived
ortavancin	מישועל ליין אין וויים וויין אין אין אין אין אין אין אין אין אין	11 1038-31-3	3	t 000t00		medon, dermanografia
	L-Leucane, N-formyr, 1-(13-hexyr-4-oxo-2-oxetanyl)methyljdodecyl ester, [2S-174 in In In In In In In In In In In In In In	06870_58_7	a	12074R	Anomoriis/Antisbosiis	Obesity
Official			j			60000
	Pyrrolidine, 1-[2-(p-(7-methoxy-2,2-					
omelovířene	dimethyl-3-phenyl-4-chmanyliphenoxylethyll-, trans- [CAS]	31477-60-8	<u> </u>	2329201	Female contraceptive	Contraceptive, female
Omiderele		16773-42-5			•	
Cillidakore		3207 22 7				
Omipressin		3331-23-1 70-00-0	·			
Ornithine		70-26-8				
	Dret. 12-on-1-oic acid 11 15-dihydmxv-					
	17,20-dimethyl-6,9-dioxo-, methyl ester,					
omoprostil	(11Apha,13E,15S,17S)- [CAS]	70667-26-4	S	4278688	Prostaglandin	Ulcer, gastric
Orotic Acid		65-86-1				
Orphenadrine		83-88-7				
Orthocaine	٠	536-25-4				
Osalmid		526-18-1		ı		
	Acetamide, N-11-13-f(3R)-1-benzoyl-3-(3,4-					
	dichlorophenyl)-3-piperidiny[propyl]-4-		(:	
osanetant	phenyl-4-pipendinyl-N-methyl- [CAS]	160492-56-8	n T	673928	Neuroleptic	Schizophrenia
osaterone	(acetyloxy)-6-chloro- [CAS]	105149-00-6	&	193871	Prostate disorders	Benign prostatic hyperplasia
	1-Cyclohexene-1-carboxylic acid, 4-		•			
	(acaylanaxo)>-animo>-(1-eniyanopoxy)-, ethyl ester, (3R-(3Apha,(48,5Apha))-		-			
osettamivir	[CAS]	196618-13-0	ş	9626933	Antiviral, other	Infection, influenza virus
OSI-7836	4Tho-Ls-D-arabinofuranosykcytosine				Anticancer, antimetabolite	Cancer, general

API Generic Name	Vame	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
OSI-7904		139987-54-5	8	9119700	Formulation, optimized, liposomes	Cancer, general
ospemifene	Ethanof, 244-(12)-4-chloro-1,2-diphenyl-1-butenyl[phenoxy]- [CAS]	128607-22-7	No No	9607402	Menopausal disorders	Osteoporosis
otionium bromide	Ethanaminium, N.N-diethyl-N-mothyl-2-[[4- [[2-(octyloxy)berzoyfjamino]benzoyfloxy]-, bromide [CAS]	26085-59-0	89	1181406	Antispasmodic	Imitable bowel syndrome
Ouabain		630-60-4			·	
Oxaceprol	· · · · · · · · · · · · · · · · · · ·	33996-33-7				
Oxacillin		66-79-5				
Oxaflozane		26629-87-8				٠
	Platinum, (1,2-cyclohexanediamine- N,N)(ethanedioato(2-)-0,O']-, [SP-4-2-(1R-					
oxaliplatin	trans)]- [CAS]	61825-94-3	<u> </u>	393575	Anticancer, alkylating	Cancer, colorectal
Oxalyt-C	1,2,3-Propanetricarboxyfic acid, 2-hydroxy- , potassium sodium salt [CAS]	28060-67-5	띰	2249274	Urological	
Oxamarin		15301-80-1			·	
Oxametacine		27035-30-9	,			
Oxamniquine		21738-42-1		<u>-</u>		
	2-Oxaandrostan-3-one, 17-hydroxy-17-					Sex-chromosome abnormality,
oxandrolone	metry-, (5Apha, 178)- [CAS]	53-39-4	<u>s</u> .	3128283	Reproductive/gonadal, general	Turner's syndrome
Oxantel		36531-26-7				•
Oxapropanium		541-66-2				
oxaprozin	Z-Uzezorepropanorc acto, 4,5-ophenyi- [CAS]	21256-18-8	89	1206403	Antiarthritic, other	Arthritis, osteo
oxatomide	2H-Beitzimidazol-2-one, 1-[3-[4- (diphenylmethyl)-1-piperazinyl[propyl]-1,3- ditydro- [CAS]	60607-34-3	89	1579365	Antiallergic, non-asthma	Rhinitis, allergic, general
	7-Chloro-1,3-dihydro-3-hydroxy-5-phenyl- 2H-1,4-benzodiazepin-2-one					
oxazepam		004-73-1			Formulation, oral, orally-disintegrating	Anxety, general

API Generic Name	4	CAS No. 27167-30-2	Patent Referer	Patent Reference	Example of Therapeutic Use	Example of Indication
oxazolam	one, 10-chore-2,3,7,110-terranyore-2-methyl-11b-phenyl-[CAS]		S	3772371	Anxiolytic	
oxcarbazepine	5H-Dibenz[b]fjazepine-5-carboxamide, 10,11-dihydro-10-oxo- [CAS]	28721-07-5 29331-92-8	끰	2011087	Antieptic	Epilepsy, general
Oxeladin		468-61-1	,			
Oxendolone		33765-68-3				
Oxethazaine		126-27-2				
Oxetorone		26020-55-3	******			
	Ethanone, 1-(2,4-dichlorophenyl)-2-(1H-imidezel-1-4h- O-1/2-4-					
oxiconazole	dichlorophenyl)methyljoxime, (Z)- [CAS]		GB	1514870	Antifungal	Infection, fungal, general
Oxidronic Acid		15468-10-7				
Oxiniacic Acid		2398-81-4				
Oxiracetam		62613-82-5				
						•
	3-Oxa-9-azoniatricyclo[3.3.1.02,4]nonane,					
	phenypropoxy)-9-methyl-, bromide, [7(S)-				:	,
oxitropium	(1Apha,28,48,5Apha,78)}- [CAS]		8	1178305	Antiasthma	
Oxolamine	ı	959-14-8				
Oxolinic Acid	٠	14698-29-4				
Oxophenarsine		538-03-4				
Oxprenolol		6452-71-7			****	•
Oxybenzone		131-57-7				
	Benzeneacetic acid, Alpha-cyclohexyl- Alpha-hydroxy-, 4-(diethylamino)-2-butynyl					
oxybutynin	ester- [CAS]	5633-20-5			Formulation, modified-release, other	Incontinence
Oxycinchophen		485-89-2				
	Morphinan-6-one, 4.5-epoxy-14-hydroxy-3-					
oxycodone	יין וישטאירין יאניטטורין יאניטטוווין איניטטוווין איניטטווין	76-42-6			Formulation, transmucosal, nasal	Pain, general

API Generic Name Oxyfedrine	API Chemical Name	CAS No. 15687-41-9	Patent Reference	ence	Example of Therapeutic Use	Example of Indication
	Octane, 1-bromo- 1,1,2,2,3,4,4,5,5,6,6,7,7,8,8,8-					
Oxygent	neptradecantoro- [CAS]	423-55-2			Haematological	Surgery adjunct
Oxymesterone		145-12-0				
		1491-59-4				
	Androstan-3-one, 17-hydroxy-2- (hydroxymethylene)-17-methyl-					
охутетою	(5Apha,178)- [CAS]	434-07-1			Hormone	Anaemia, general
Oxymethurea		140-95-4				
oxymorphone	(54pha)-4,5-Epoxy-3,14-dihydroxy-17- methylmorphinan-6-one [CAS]	76-41-5			Formulation, modified-release, immediate	Pain, general
Oxypendyl	. ,	5585-93-3				•
Oxypertine		153-87-7	<u></u>			
Oxyphenbutazone		129-20-4	:			
Oxyphencyclimine		125-53-1				
Oxyphenisatin		115-33-3				
Oxyphenonium	•	50-10-2				
Oxypinocamphone		10136-65-9	,			
oxypurinol	In-rytazona, s. 4-ojpytantama-4, o(5n, 7n)- dione [CAS]	2465-59-0			Antigout	Hyperuricaemia
Oxytetracycline	, !	79-57-2				
ozagrei	2-Propenoic acid, 3-{4-(1H-imidazol-1- ylmetty/)phenylj. (E)- [CAS]	2	<u>28</u>	2025946	Antithrombotic	Vasospasm, cerebral
å		536-95-8	•		**************************************	•
(Benzylsulfonamido)ben						
zoic Acid						•
P-100			સ જ	6313177	Antiviral, anti-HIV	Infection, HIV/AIDS
P-1202	Pentanoc acid, 5-amino-4-exo, methyl ester, hydrochloride [CAS]	79416-27-6	. ম জ	6034267	Dermatological	Keratosis
	D+(3N-{(2S,3S)-2-amino-3-methyl- pentanov(F-1,3-thiazolidine)fumarate		•		,	
					Antidiabetic	Diabetes, Type II
PA-824		_	0 0 0	WO 9701562	Antimycobacterial	Infection, tuberculosis

API Generic Name		CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
PACAP 38	Pitiifāry adēnylafa cyclase-activating peptide-38 [CAS]	. 2	S	5128242	Neuroprotective	Nerve injury, general
·	56,20-Epoxy-1,2Apha,4,78,108,13Apha-hexahydroxytax-11-en-9-one-4,10-discetate-2-benzoate-13-(Apha-phenyfhippurate)					
pactitaxel PADRE		33069-62-4	Sn	6413935	Formulation, optimized, nanoparticles Immunostimulant, other	Cancer, preast Vaccine adjunct
bagodone	1H-tsoindol-1-one, 2-(7-chloro-1,8- naphthyridin-2-yl)-2,3-dihydro-3-(5-methyl- 2-oxohexyl)- (R)- [CAS]	133737-32-3	S.	4960779		Panic disorder
PAI inhibs			9	WO 9404512	Antithrombotic	I nrombosis, venous
palindore	8H-1,4-dioxino[2,3-ejindoh-8-one,2,3,7,9- tetrahydro-2-[(ghenylmethyl)aminojmethyl]- , 2(S)-, (2E)-2-butendioate (1:1)	189681-71-8			Neuroleptic	Schizophrenia
Palivizumab		188039-54-5				
	3a\$-2-{(S}-1-Azabicydo{2.2.2}od-3-y}- 2,3,3a,4,5,6-hexahydro-1-cc-1H- berz{de]isoquinoline hydrochloride					Chemotherapy-induced
palonosetron		135729-62-3	<u>s</u>	5202333	Antiemetic	nausea and voruming
Pamabrom		606-04-2	•			
Pamaquine		491-92-9				-
pamicogral	1H-Ymote-1-ecenc aco, 2-14,3-05(4-methoxyphenyl)-2-thiazolyl]-, ethyl ester [CAS]	101001-34-7	<u> </u>	159677	Antithrombotic	Thrombosis, cerebral
pamidronate	(3-Amino-1- hydroxypropylidene)diphosphonic acid- [CAS]	40391-99-9			Formulation, implant	Hypercalcaemia of malignancy
p-Aminobenzoic Acid		150-13-0				
p-Aminohippuric Acid		61-78-9				
p-Aminopropiophenone		6-69-0				
p-Aminosalicylic Acid		65-49-6				
				•		

			Patent		
API Generic Name		CAS No.	Reference	Example of Therapeutic Use	Example of Indication
	ylidenedithiobis-2,6-di-t-			:	
Panavir	butytohenol			Neuroprotective	Vasospasm, cerebrai
Pancuronium		15500-66-0			
Panipenem		87726-17-8			
Pantethine		16816-67-4	 -,-		1
	1H-Benzimidazole, 5-(difluoromethoxy)-2- III(3,4-dimethoxy-2-pyridinyl)methyljsulfinylj-		·		
pantoprazole	[cAs]	102625-70-7	EP 166287	Antiuloer	Ulœr, duodenal
Pantothenic Acid		79-83-4		,	
Papain				***************************************	
Papaverine	,	58-74-2			
ometeomed	Acetamide, N-(4-hydroxyphenyl)- [CAS]	103-90-2		romulation, oral, other, modified- release	Pain, general
		4500 02.2)
Paramutzide	,	7-20-00-07			
Paraidehyde		123-63-7			
Paramethadione		115-67-3			
Paramethasone		53-33-8			
Paranyline		1729-61-9			
Parathyroid Hormone		9002-64-6		•	
	Propanamide, N-((4-(5-methyl-3-phenyl-4-		<u> </u>	,	
namecoxib	ICASI	198470-85-8	WO 9738986	6 Analgesic, NSAID	Pain, post-operative
		04.22.5			•
Paremoxycaine		257-45		-	
Pargyline		222-27-7			
nativaletini	19-Mor-9,10-secoergosia-5,7,22-mene- 1.3.25-triol. (1Aloha.30,7E.22E)- [CAS]	131918-61-1	EP 387077	Нотопе	Hyperparathyroidism
particular					
	O-2-Amino-2-deoxy-Alpha-D-glucopyranosyl-(1-4)-O-[O-2,6-diamino-2,6-dideoxy-6-L-4dopyranosyl-(1-3)-4-D-dideoxy-6-L-4dopyranosyl-(1-3)-4-D-				
paromomycin		7542-37-2		Protozoacide	Infection, leishmaniasis
	Piperidine, 3-{(1,3-benzodioxol-5-ytoxy)methylj-4-(4-fluorophenyl)-, (3S-		•	Antidepressant, formulation, oral, orally-	
paroxetine		61869-08-7	EP 223403		Depression, general

			Patent			
API Generic Name	API Chemical Name	CAS No.	Reference	nce	Example of Therapeutic Use	Example of Indication
Paroxypropione		70-70-2	,——.	,	•	•
Parsalmide	:	30653-83-9				
PaTrin-2	4-Bromomenyiguanine				Radio/chemosensitizer	Cancer, melanoma
Pazinaclone		103255-66-9				
	7H-Pyrido[1,2,3-de]-1,4-benzoxazine-6-					
	carboxylic acd, 10-(1-aminocyclopropyl)-9-12/045-41-4 fluoro-2,3-dihydro-3-methyl-7-oxo-, (S)- 127046-45-1	127045-41-4				
pazufloxacin	[CAS]	8	8 3	3913245	Quinolone antibacterial	Infection, general
p-Bromoacetanilide	•	103-88-8				
PC-NSAIDs			US 49	4918063	Formulation, other	Arthritis, general
	6-(2,6-Dichlorophenyl)-2-{4-(diethylamino- ethoxy)-phenylamino]-8-pyrido[2,3-		n. 44 - 44 - 44 - 44 - 44 - 44 - 44 - 44			
PD-0166285					Anticancer, other	Cancer, general
Pecilocin		19504-77-9				
pefloxacin	3-Quinolinecarboxylic acid, 1-ethyl-6-fluoro 1,4-dihydro-7-(4-methyl-1-piperazinyl)-4- oxo- [CAS]	70458-92-3	GB 15	1598915	Quinolone antibacterial	Infection, urinary tract
	Somatotropin (18-aspartic acid, 21-asparagine, 120-lysine, 167-asparagine,					
	168-atanine, 171-serine, 172-arginine, 174-serine, 179-threonine (human), pegylated					
pegvisomant	[CAS]	218620-50-9			Sometostatin	Acromegaly
Pelletierine	•	4396-1-4				
	L-Glutamic acid, N-{4-{2-(2-amino-4,7- ditydro-4-oxo-11+pymolo(2,3-dipyrimidin-5-137281-23-3	137281-23-3				
pemetrexed	y)ethylbenzoylj-, disodium salt [CAS]	150399-23-8	25 Sn	5248775	Anticancer, antimetabolita	Cancer, mesothelioma
pemirolast	4N-Pynoo(1,2-ajpynmon+4-one, 9-memyr- 3-(1H-tetrazol-5-yl)- [CAS]	100259-08-9 69372-19-6	공 <u>4</u>	4457932	Antiasthma	Asthma
Pemoline		2152-34-3				
Pempidine		79-55-0				Infraction business and and
PEN-203			NS 59	5955446	Antiviral, other	virus
Penamecillin		983-85-7				

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API Generic Name		CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
penbutolol	2-tropanol, 1-(2-cyclopentyphenoxy)-3- [(1,1-dimethylethyl)amino]-,(S)-, sulfate (2:1) (satt) [CAS]	38363-32-5 38363-40-5	8	1215751	Antihypertensive, adrenergic	
penciclovir	6H-Purin-6-one, 2-amino-1,9-dihydro-9-[4- hydroxy-3-(hydroxymethyl)butyl]- [CAS]		<u>a</u>	60058982	Antiviral, other	Infection, herpes simplex virus
Penethamate penfluridol	4-Piperidinol, 1-[4,4-bis(4- fluorophenyl)butyl]-4-[4-chloro-3- (trifluoromethyl)phenyl]- [CAS]	9	ä ä	2040231	Neuroleptic	
Penicillamine Penicillin G Penicillin G Benzathine		52-67-5 61-33-6 1538-09-6	and the second s			
Penicillin G Procalne Penicillin N Penicillin O Penicillin V Penimepicycline Penituss Pentaerythritol Pentaerythritol		6130-64-9 525-94-0 87-09-2 87-08-1 4599-60-4 78-12-6	S	4221778	Formulation, modified-release, other	Rhinitis, allergic, general
Pentagastrin Pentagastrin Pentagestrone Pentalyte	Starch, 2-hydroxyethyl ether [CAS]	597-71-7 5534-95-2 7001-56-1 9005-27-0	<u> </u>	5407428	Plasma substitute	Surgery adjunct
pentamidine Pentazocine Pentetate Pentetic Acid	Benzenecarboximidamide, 4,4'-[1,5- pentanediyibis(oxy)]bis- [CAS]	100-33-4 359-83-1 12111-24-9 67-43-6 138661-02-6	<u> </u>		Formulation, inhalable, systemic	Infection, Pneumocystis jiroveci prophylaxis

			Patent	4		
API Generic Name	API Chemical Name		Refe	Reference	Example of Therapeutic Use	Example of Indication
Penthienate	,	60-44-6				
Pentifylline		1028-33-7				
Pentigetide		62087-72-3				
Pentisomide		78833-03-1				
Pentobarbital		76-74-4				
Pentolinium		52-62-0				
Pentorex						
pentosan	Xylan, [CAS]	37319-17-8	3	5180715	Urological	innammation, unnary tract
	Imidazo[4,5-d][1,3]diazepin-8-ol, 3-(2- deoxy-13-D-erythro-pentofuranosyl)-3,6,7,8-					
pentostatin	tetrahydro-, (R)- [CAS]	53910-25-1	ട്ട	3923785	Anticancer, antimetabolite	Cancer, leukaemia, hairy cell
9	1H-Purine-2,6-dione, 3,7-dihydro-3,7-				Neumonotective	Amvotrophic lateral sclerosis
pentoxayuare					(
Pentoxyl		147-61-5		_		
Pentrinitrol		1607-17-6				
Pentylenetetrazole		54-95-5				
peplomydin	Bleomycinamide, N1-{3-{(1- phenylethyl)amino]propyl-, (S)- [CAS]	68247-85-8	3	4195018	Anticancer, antibiotic	
		04 07 0				
Perazine		8-18-40				
Perflubron		423-55-2				
Perfosfamide		62435-42-1;				
		39800-16-3				
	Emplie 9 (mothationathull & sound	(unspecified)				
pergolide	(88)-, monomethanesulfonate- [CAS]	66104-23-2	ട	4797405	Antiparkinsonian	Parkinson's disease
Perhexiline		6621-47-2				
Pericyazine		2622-26-6				•
	Piperidinium, 4-					
perifosine	[[hydroxy(octadecyloxy)phosphinyljoxy]- 1,1-dimethyl-, inner salt [CAS]	157716-52-4	<u>a</u>	594999	Anticancer, other	Cancer, prostate
	1-Cyclohexene-1-methanol, 4-(1-					
perityl alcohol	methylethenyl)- [CAS]	536-59-4	ട്ട	5110832	Anticancer, other	Cancer, breast
Perimethazine		13093-88-4				

API Generic Name	API Chemical Name	CAS No.	Patent Refere	92	Example of Therapeutic Use	Example of Indication
perindopril	1H-Indole-2-carboxylic acid, 1-[2-[[1- (ethoxycarbonyl)butyl],aminoj-1- oxopropyljodahydro-, [2S- [1[R*(R*)],2Alpha,3aß,7aß]]-, compd. with 2-methyt-2-propanamine (1:1) [CAS]	107133-36-8 82834-16-0 95153-31-4	<u> </u>	49658	Antihypertensive, renin system	Hypertension, general
Periodyl	1-Piperidineethanol, Alpha-(5-phenyl-3- isoxazolyf)-, 2-hydroxy-1,2,3-	2 5				
persoxal Pertapine Permethrin	propanetricarboxylate (2:1) (saft) [CAS]	2055-44-9 1977-11-3 52645-53-1	3 3	0421/925	Anti-miarmatory	
perospirone	1H-Isoindole-1,3(2H)-dione, 2-[4-[4-(1,2-berzisothiazol-3-yl)-1-piperazinyl[butyl[hexahydro-, cis- [CAS]	8-7 1-6	క	2167004	Neuroleptic	Schizophrenia
Perphenazine Petroleum Benzin PH-10		9	S	6331286	Antipsoriasis	Psoriasis
Phanguinone Pharmaprojects No. 4994 December No. 5325		84-12-8	9	9638482 9703986	Immunological Neuroleotic	Unspecified Schizophrenia
Pharmaprojects No. 5972 Pharmaprojects No. 6362				0204426 6057346	Antiasthma Antiviral, anti-HIV	Asthma Infection, HIV/AIDS
Pharmaprojects No. 6446	(R)-N-{4-{2-[2-thytroxy-2-{3- pyridinyl)ethyljaminojethyljphenyl]-4-{4-{4- (trifluoromethyl)phenyljthiazol-2- yljbenzenesulfonamide				Anorectic/Antiobesity	Obesity
Pharmaprojects No. 6590 Pharmaprojects No. 6656			0 S S	0206223 6455026	Psychostimulant Genomics-based drug discovery	Attention deficit disorder Cancer, brain
Pharmaprojects No. 6743	3-(6-Aminopyridin-3-yl)-N-metryl-N-[(1- mettyk-1H-indol-2-yl)methyljacrylamide				Antibacterial, other	Infection, general

API Generic Name	API Chemical Name	CAS No.	Patent Reference	Example of Therapeutic Use	Example of Indication
Pharmaprojects No. 6748 Phenacaine Phenacemide Phenacetin Phenacetin Phenacetin Phenacocine Phenazogyridine Phenazogyridine Phenazogyridine Phenetrazine Phenetrazine Phenetrazine Phenetrazine Phenetrazine Phenindamine Phenindione	1,2,3,4,10,14b-Hexahydro-6-methoxy-2-methydibenzo[c,f]pyrazino[1,2-a]azepin	620-99-5 63-98-9 62-44-2 62-44-2 467-84-5 115-43-5 3819-34-9 127-35-5 136-40-3 3149-00-6 77-10-1 634-03-7 51-71-8 3546-10-9 357-67-5 132-93-4 90-49-3 1156-05-4 82-88-2 83-12-5 134-49-6 55-52-7 86-21-5 134-49-6 55-21-5 103-97-9 77-09-8		Antidepressant	Depression, general

API Generic Name Phenoksulfonphthalein Phenottetrachlorophthal	API Chemical Name	CAS No. Rei 143-74-8 639-44-1	Patent Reference	Example of Therapeutic Use	Example of Indication
ein Phenoperidine Phenosulfazole Phenoxybenzamine Phenprobamate Phenprocoumon		562-26-5 515-54-8 59-96-1 3818-37-9 673-31-4 435-97-2			
phenserine Phensuximide Phentermine Phentetothalein	Pymoto(2,3-b)indol-5-ol, 1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethyl-, phenylcarbamate (ester), (3aS-cis)- [CAS] 101246-68-6 86-34-0 122-09-8 18265-54-6	101246-68-6 86-34-0 122-09-8 18265-54-8		Cognition enhancer	Azheimer's disease
phentolamine Phenyl Acetylsalicylate	Phenol, 3-(((4,5-dihydro-1H-imidazol-2- yf)methyl)(4-methytphenyl)amino)-, monomethanesulfonate (sait) [CAS]	65-28-1 50-60-2 134-55-4		Formulation, oral, other	Impotence
Phenyl Aminosalicylate Phenyl Salicylate Phenylbutazone Phenylephrine Phenylethanolamine		133-11-9 118-55-8 50-33-9 61-76-7 7568-93-6 102-98-7			·
Phenylmethylbarbituric Acid phenylpropanolamine Phenylpropylmethylami	Benzenemethanol, Alpha-(1-aminoethyl)-, (R*,S*)-(+/-)- [CAS]	76-94-8 14838-15-4 93-88-9		Anorectic/Antiobesity, formulation, optimized, microparticles	

			Patent		
API Generic Name	API Chemical Name		Reference	Example of Therapeutic Use	Example of Indication
Phenyltoloxamine	:				
Phenyramidol		553-69-5			
a ion code	2,4-imidazolidinedione, 5,5-diphenyi-	57-41-0		Formulation, oral, other	Epilepsy, general
Drettomileto		510-34-9		•	
Phenenylate		108-73-6			
Pholcodine		509-67-1			
Pholedrine	٠	370-14-9			
Phosphocreatine		67-07-2			
Phosphocysteamine		5746-40-7			
Phosphorylcholine		107-73-3			
Phthalylsulfacetamide		131-69-1			
Phthalylsulfathlazole		85-73-4			
p-Hydroxyephedrine	1	365-26-4			
Phylloquinone	٠	84-80-0			
Physostigmine		57-47-6			
Phytic Acid		83-86-3			
	O^{-1}				
	mannowranosyl (1-3)-O-Hpia-D-mannowranosyl (1-3)-O-Abha-D-	,			
ā	mannopyranosyl-(1-2)- hydrogen sulphate	185077-23-0		Anticancer other	Cancer, melanoma
Dibereline		39640-15-8			
riberalino	2H-(1,3)Oxazino(3,2-a)indole-10-				
	carboxamide, N-((1-butyl-4-	152811.62.E	OWI GRADERIZE	Antiortythmic	Fibrillation atriat
piposerod					
Picilorex		62510-56-9			
Picloxydine		5636-92-0			
Picoperine		21755-66-8			
Picosulfate		10040-45-6			
Picotamide	! :	32828-81-2			
Picumast		39577-19-0			

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			Patent	nt		
API Generic Name	API Chemical Name	CAS No.	Refe _	Reference	Example of Therapeutic Use	Example of Indication Infection respiratory tract.
pidotimod	pyrrolidinyl)carbonylj- [CAS]	121808-62-6	&	276752	Immunomodulator, anti-infective	lower
Pifamine		56208-01-6				
piketoonfen	Benzeneacetamide, 3-benzoyl-Alpha- methyLN-(4-methyl-2-ovridinyl)- [CAS]	60576-13-8	GB GB	1436502	Anti-inflammatory, topical	
Pildralazine		65				
pilocarpine	2(3H)-Furanone, 3-ethyldihydro-4-[(1-methyl-1H-imidazol-5-yl)methyl-, (3S-cis)-[CAS]	92-13-7			Formulation, implant, Stomatological	
	2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with 2-propenoicacid, compd. with (3S-cis)-3-ethyldinydro-4-[(1-methyl-1H-imidazol-5-yl)methyll-2(3H)-					
Piloplex	furanone [CAS]	62783-28-2	띰	2636559	Formulation, mucosal, topical	Glaucoma
pilsicainide	1H-Pymolizine-7a(5H)-acetamide, N-(2,5- dimethylphenyl)tatrahydro-, monohydrochloride [CAS]	88069-49-2 88069-67-4	SN	4564624	Antiarrhythmic	Arrhythmia, general
Pimeclone		534-84-9				
	15,18-Epoxy-3H-pyrido(2,1- c)(1,4)oxaazacychoricosine- 1,7,20,21(4H,23H)-tetrone, 3-(2-(4-chloro- 3-methoxycychohaxyl)-1-methyletheny)-8- ethyl- 5,6,8,11,12,13,14,15,16,17,18,19,24,25,26					
	.2027824262617410-5, 3-241731005, 14, 10, 10, 10, 12, 18-ebramethyl-(3S-(3R*E(1S*, 3S*, 4R*)), 4S*, 5R*, 8S*, 9E*, 12R*, 14R*, 5S*, 16R*, 18S					
pimecrofimus	8,19S",26aR")}- [CAS]	137071-32-0	ß	626385	Antipruritic/Inflamm, allergic	Eczema, atopic
	Acetic acid, [2-foctahydro-5-hydroxy-6-(3-hydroxy-5-methyl-1-nonenyl)-2-pentalenyljethoxy]-, methyl ester, [2R-[2Apha,3Alpha,4Alpha(1E,3S*,5S*),58,6a					
pimilprost	Aphall-[CAS]	139403-31-9			Dermatological	Ulcer, general
Piminodine		13495-09-5				
Pimobendan		74150-27-9				
				•		

	ADI Chamasa Nama	OA SAC	Patent	Palent Poference	Example of Therapelitic Use	Example of Indication
API Generic Name	2-one, 1-{1-{4,4-bis(4- 14.oinaridiny 1-13.			3		
pimozide	dihydro-[CAS]	2062-78-4	Œ	M3695	Neuroleptic	
Pinacidii		85371-64-8				
pinaverium	Morpholinium, 4-((2-bramo-4,5-dimethoxyphenyl)methyl]-4-(2-(6,6-dimethylbicyclo(3.1.1)hept-2-yl)ethoxyjethyl]-, [CAS]	53251-94-8 59995-65-2	&	406743	Antispasmodic	Irritable bowel syndrome
рілагерат	2H-1,4-Benzodiazepin-2-one, 7-chloro-1,3- dihydro-5-phenyt-1-(2-propynyl)-{CAS]	52463-83-9	씸	2339790	Anxiolytic	
Pindolol		13523-86-9				
pioglitazone	z,+- i nazowanecione, 5-14-1,-15-euryr-z- pyńdinyl)ethoxylphenyljmethylf- monohydrochloride (+/-)- [CAS]	111025-46-8 112529-15-4	E	193256	Antidiabetic	Diabetes, Type II
Pipacycline	•	1110-80-1			****	
Pipamazine		84-04-8				
Pipamperone		1893-33-0			-	
Pipazethate		2167-85-3			,	
Pipebuzone		27315-91-9				
Pipecurium		52212-02-9				
pipecumum	Piperazinium, 4,4'- [(28,3Apha,5Apha,168,178)-3,17- bis(acetyloxy)androstane-2,16-diyl[bis[1,1]+52212-02-9 dimethyl-, [CAS]	52212-02-9 68399-57-5	8	1398050	Muscle relaxant	Anaesthesia, adjunct
	Pyrido[2,3-d]pyrimidine-6-carboxyfic acid, 8-ethyl-5,8-dihydro-5-oxo-2-(1-piperazinyl)					
pipemidic acid	[CAS]	51940-44-4	8	1451911	Antibacterial, other	Infection, urinary tract
Pipenzolate Bromide		125-51-9				
Piperacetazine		3819-00-9				
piperacilin	4-Thia-1-azabicyclo(3.2.0]heptane-2- carboxyfic acid, 6-[[[[(4-ethyl-2,3-dioxo-1- piperazinyl)carbonyljamino]phenylacetylja mino]-3,3-dimethyl-7-oxo-[25- [2Alpha,5Alpha,6B(S*)]]- [CAS]	59703-84-3 61477-96-1	89	1508062	Penicilin, Injectable	Infection, general

ADI Conodo Nomo	ADI Chemical Name	CAS No.	Patent Reference		Example of Therapeutic Use	Example of Indication
Piperazine Adipate		142-88-1	_			
Piperidione		77-03-2				
Piperidolate		82-98-4		•		
Piperilate		4540-39-8	OM OM	002544	Dermatological	Vitiligo
Discussing		136-82-3				•
Piperonal		120-57-0				
Piperoxan		59-39-2				
Piperylone		2531-4-6				
Pipobroman		54-91-1				
Piposulfan		2608-24-4				
	Hexadecanoic acid, 2-[1-[3-[2- fraimethylemino)e::ffp:wfl-10H-					
	phenothiazin-10-yipropyil-4-	37517-26-3				
pipotiazine	piperidiny/jethyl ester [CAS]	39860-99-6	SJ 4	4782077	Neuroleptic	
Pipoxołan		18174-58-8		,		
Pipradrol		467-60-7		-		
	Acetic acid, [3-ethyl-4-oxo-5-(1-piperidinyl)-					Motility dysfunction, GI,
piprozolin	2-thiazolidinylidene]-, ethyl ester [CAS]	17243-64-0	<u>ဗ</u>	3971794	Gl inflammatory/bowel disorders	general
Piracetam		7491-74-9				
	5,12-Naphthacenedione, 10-f[3-amino-					
	ylyAlpha-L-fyxo-hexopyranosyljoxyl					
·	7,8,9,10-tetranydro-6,8,11-trinydroxy-6- (hydroxyacetyl)-1-methoxy-, [8S-					
pirarubicin	[8Apha,10Apha(S")]}-[CAS]	72496-41-4	S A	4303785	Anticancer, antibiotic	Cancer, breast
Pirazolac		71002-09-0	-			
	2,6-Pyrdinedmethanol, Aphae-[(1,1-dimethylathylaminolmethyll-3-hydroxy-	38029-10-6 38677-81-5				
pirbuterol	monoacetate (salt) [CAS]	65652-44-0	S S	3786160	Antiasthma	Asthma
Pirenoxine		1043-21-6				

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API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
pirenzepine		28797-61-7 29868-97-1	Œ	1505795	Antiulcer	
piretanide	Benzoic acid, 3-(aminosulfonyl)-4-phenoxy-5-(1-pymolidinyl)- [CAS]	55837-27-9	ട്ട	4010273	Anthypertensive, diuretic	Hypertension, general
pirfenidone	2(1H)-Pyridinone, 5-methyl-1-phenyl- [CAS]	53179-13-8			Respiratory	Fibrosis, pulmonary
piribedil	Pyrimidine, 2-[4-(1,3-benzodioxol-5- yfmethyl)-1-piperazinyl]- [CAS]	3605-01-4	S	3299067	Vasodilator, peripheral	Parkinson's disease
Piridocaine		87-21-8				
Pirifibrate		55285-45-5				
Piritramide		302-41-0				
Piritrexim		72732-56-0				
pirtindole	1H-Pyrazino[3,2,1-jk]carbazole, 2,3,3a,4,5,6-hexahydro-8-metryl- [CAS]	16154-78-2 60762-57-4	S	276060	Antidepressant	Depression, general
	(2-Pyridinemethanol, Alpha-[3-(2,6-	64477 04 0				
pirmenol	Apha.phenyt, cis-(+)- [CAS]	68252-19-7	ട	4112103	Antiamhythmic	Tachycardia, supraventricular
Piroctone		50650-76-5				
Piroheptine		16378-21-5				
Piromidic Acid		19562-30-2				
piroxicam	2H-1,2-Benzothiazine-3-carboxamide, 4- hydroxy-2-methyl-N-2-pyridinyl-, 1,1- dioxide [CAS]	36322-90-4	ജ	3862319	Anti-inflammatory	
piroxicam betadex	B-Cyclodextrin, compd. with 4-hydroxy-2-methyl-N-2-pyridinyl-2H-1,2-benzothiazine-121696-62-6 3-carboxamide 1,1-dioxide- [CAS]	121696-62-6 96684-39-8	&	153998	Formulation, other	Pain, musculoskeletal
рігохісат сітпатаве	2-Propenoic ecid, 3-phenyl-, 2-methyl-3- ((2-pyridinylamino)carbonyl-2H-1,2- benzothiazin-4-yl ester, S,S-dioxide [CAS]	87234-24-0	<u>a</u>	79639	Antiarthritic, other	Inflammation, general
Pirozadil		54110-25-7				
Pirprofen		31793-07-4				

API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
pitavastatin	6-Heptenoic acid, 7-{2-cyclopropyl-4-(4-fluorophenyl)-3-quinolinyl}-3,5-dihydroxy,calcium salt (2:1), [5-{R*,S*-(E)]}- [CAS]	147526-32-7	<u> </u>	304063	Hypolipaemic/Antiatherosclerosis Neurological	Hyperlipidaemia, general Anxiety, general
methyl	Bitañoic acid, (2,2-dimethyl-1- axopropoxy)methyl ester [CAS]	122110-53-6	<u> </u>	302349	ther	Cancer, lung, non-small cell
Pivalylbenzhydrazine Pivampiciliin pvampiciliinpivmecilinam Pivcefalexin		306-19-4 33817-20-8 9845-47-7 63836-75-9			Penicillin, oral	Infection, general
річтесійлат	4-Thia-1-azabicyclo(3.2.0]heptane-2-carboxylic acid. 6-[[(hexahydro-1H-azepin-1-y])metrylene]amino]-3.3-dimetryl-7-oxo-, (2.2-dimetryl-1-oxopropoxy)metryl ester, [[2S-(2Apha,5Apha,68])-[[CAS]]	32886-97-8	8	1293590	Penicilin, oral	Infection, general
ріхалітоле	Benz[g]isoquinoline-5,10-dione, 6,9-bis[(2-aminoethyl)amino]-, (2Z)-2-butanedioate(1:2) [CAS]	144675-97-8	B	503537	Anticancer, other	Cancer, lymphoma, non- Hodgkin's
pizotijen Pizotyline	4-(9,10-dihydro-4H- benzo(4,5)cyckohepta(1,2-b)thien-4- yildene)-1-methylpiperidine.	15574-96-6 15574-96-6	3	2346747	Antimigraine	
PKI-166	Phenol, 4-{4-(((1R)-1-phenylethy))amino)- 1H-pyrroko(2,3-d)pyrimklin-6-yl)- [CAS]	187724-61-4 530-08-2			Anticancer, other	Cancer, general
P-tattippinenenue Plafibride plasminogen activator Plasmocid	Plasminogen activator (CAS)	63394-05-8 105913-11-9 551-01-9	G	151996	Fibrinolytic	Infarction, myocardial
Plaunotol - PLD-118	Cyclopentanecarboxylic acid, 2-amino-4- methylene-, (1R,2S)- [CAS]	64218-02-6 198022-65-0	<u>a</u>	805145	Antifungal	Infection, Candida, general

API Generic Name	API Chemical Name	CAS No.	Patent Reference	Exa	Example of Therapeutic Use	Example of Indication
P.D-147	adamant/amine)ammine-dichloro- platinum (IV)			Antic	Anticancer, alkylating	Cancer, general
	1,2,4-Oxadiazole, 3-(3,5-dimethyl-4-(3-(3-methyl-5-isoxazolyl)propoxy)phenyll-5-(trifluoromethyl)- [CAS]	153168-05-9	US 5464848		Antiviral, other	Infection, respiratory tract, general
Pilcamycin p- Methyldiphenhydramine		18378-89-7 19804-27-4				
PMS-601			WO 0001677		Antiviral, anti-HIV	Infection, HIV/AIDS
Pneumococcal Vaccine, Diphtheria Conjugate						
Pneumococcal Vaccine, Polyvalent						
DNILZBROA	N-[[(5s)-3{4 (1,1-dioxido-4-thiomorpholinyl)3,5-difluorophenyl}-2-oxo-5-oxazolidinyl]methyl]acetamide]			Antik	Antibiotic, other	Infection, general
Podophyllotoxin polaprezinc	Zinc, bis(N-G-alanyl-L-histidinato- N3,OAlpha)-, (T-4)- [CAS]	518-28-5 107667-60-7	EP 303380	Antiulcer	iloer	Ulcer, duodenal
Poldine Methylsulfate Policresulen Polidexide	Polyethylene glycol monododecyl ether	545-80-2 9011-2-3 9064-92-0 3055-89-0 9002-82-0		Vass	Vasoprotective, systemic	Venous insufficiency
Poliovirus Vaccine Inactivated						

API Generic Name poly-ADPRT inhibitors	API Chemical Name	CAS No.	Patent Reference	nce 45253	Example of Therapeutic Use Anticancer, other	Example of Indication Cancer, general
Polyphenon E	Polyphenon E [CAS]	188265-33-0			Artiviral, other	Infection, human papilloma virus
Polymiazkie porfiner Porfiromycin	Photoftin [CAS]	87806-31-3 801-52-5	SO	4882234	Anticancer, other	Cancer, lung, non-smail cell
	D-threo-Pentitoi, 2,5-anhydro-1,3,4-trideoxy-2-C-(2,4-difluorophenyl)-4-((4-(4-(4-(115,2S)-1-ethyl-2-hydroxypropyl)-1,5-dihydro-5-oxo-4l+1,2,4-triazol-4-y/lphenyl)-piperazinyl)phenoxy)methyl)-1-(1l+1,2,4-					
posaconazole Posatirelin potassium chloride		171228-49-2 78664-73-0 7447-40-7	s D	5714490	Antifungal Formulation, oral, enteric-coated	inection, lunga, general
Potassium Gluconate Potassium Guaiacolsulfonate		299-27-4 1321-14-8				
Potassium p- Aminobenzoate Potassium		138-84-1 7722-64-7		g		
Permanganate Povidone Povidone-lodine		9003-39-8 25655-41-8		·		
PP-117	3-Pyridinemethanol, hydrofluoride [CAS]	62756-44-9	씸	2633028	Formulation, oral, other	Unspecified
PR-2699	(-)-(E)-[4-(2,4-dichlorophenyl)-1,3-dithiolan- 2-yiidene}-1-imidazolylacstonitrile				Antifungal	Infection, fungal, general

API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
PR-608	(S)-(-)-1-(4,4-bis(4-fluorophenyl)butyl]-4-(2- hydroxy-3-phenylaminopropyl)piperazine trhydrochloride				Antiparkinsonian	Parkinson's disease
Practolol		6673-35-4				
Prajmaline		35080-11-6				
Pralidoxime		51-15-0				
	6H-Pyridazino(1,2-a)(1,2)diazepine-1- carboxamide, N-((2R,3S)-2- ethoxytetrahydro-5-oxo-3- furanyl)octahydro-9-((1- iscouinolinytarbonylamino)-6,10-dioxo-					
prainacasan	(18,9S)- [CAS]	192755-52-5			Antiarthritic, immunological	Arthritis, rheumatoid
pramipexole	2,6-Beřizothiazokediamine, 4,5,6,7- tatratrydro-N6-propyt-, (S)- [CAS]	0	<u>&</u>	186087	Antiparkinsonian	Parkinson's disease
	1-Pymolidineacetamide, N-[2-[bis(1-methylethyl)aminojethyl]-2-oxo-,					
pramiracetam	monohydrochlonde [CAS]		3	4145347	Cognition enhancer	Amnesia
Pramiverin		14334-40-8				
praminitée	1,2-Limia-5,8,11,14,17- pantaazacydoeicosane, cyclic peptide deriv. [CAS]	151126-32-8	ಜ	5124314	Antidiabetic	Diabetes, Type I
Pramoxine		140-65-8	1			
oranidibine	3,5-Pyridinedicarboxytic acid, 1,4-dihydro- 2,6-dimethyl-4,(3-nitrophenyl)-, methyl 3- phenyt-2-propenyl ester, (E- ICAS)	98522-79-9	&	173126	Antihoertansive, other	Hypertension general
Pranlukast		103177-37-3		-		
pranoprofen	5H-[1]Benzopyrano[2,3-b]pyridine-7-acetic acid, Alpha-methyl- [CAS]	52549-17-4			Formulation, mucosal, topical	Ocular disorder, general
prasterone	_	53-43-0			Labour inducer	
pratosarlan	4(3H)-Cycloheptimidazolone, 5,6,7,8-tetrahydro-2-propyl-3-[[2-(1H-tetrazol-5-yi)[1,1'-biphenyl]-4-yl[mettyyl]-[CAS]	153804-05-8	S	5409947	Antihypertensive, renin system	Hypertension, general

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ADI Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
	1-Naphthaleneheptanoic acid, 1,2,6,7,8,8ahexahydro-8,delta,6-trihydroxy-2-methyl-8-(2-methyl-1-oxobutoxy)-, monosodium		i		•	
pravastatin	[1Alpha(ISS*,deltaS*),2Alpha,6Alpha,8B(R* 81093-37-0],8aAlpha]]- [CAS]	81093-37-0 81131-70-6	S	4346227	Hypolipaemic/Antiatherosclerosis	Atherosclerosis
Prazepam		2955-38-6	: .			
praziquantel	4HFPyrazino[2,1-a]isoquinolin-4-one, 2- (cyclohexylcarbonyl)-1,2,3,6,7,11b- hexarydro-[CAS]	55268-74-1	SD	4001411	Schistosomicide	
prazosin	Piperazine, 1-(4-amino-6,7-dimethoxy-2-quinazoliny)-4-(2-furanylcarbonyl)-{CAS]	19216-56-9 19237-84-4	ಜ	4092315	Antihypertensive, adrenergic	Hypertension, general
Prednicarbate		73771-04-7				
prednimustine	Pregna-1,4-diene-3,20-dione, 21-{4-{4- [bis(2-chloroethyl)aminolphenyl]-1- oxobutxxy]-11,17-dihydroxy-, (11ß)- [CAS] 29069-24-7	29069-24-7	89	1272841	Anticancer, alkylating	
Prednisolone		50-24-8	•			
Prednisolone 21- Diethylaminoacetate		5626-34-6				
oradnisokore farnesil	Pregna-1,4-diene-3,20-dione, 11,17- dihydroxy-21-((3,7,11-trimethyl-1-oxo- 2,6,10-dodecatrienyl)oxy}-, [118,21(2E,6E)}- [CAS]	118244-44-3	<u>D</u>	332143	Antiarthritic, other	Arthritis, rheumatoid
Prednisolone Sodium	•	125-02-0				
Phosphate	•					
Prednisone	:	53-03-2	:			
Prednival		15180-00-4			,	•
Prednylidene		599-33-7		,		
pregabalin	Hexanoic acd, 3-(aminomethyl)-5-methyl, (S)- [CAS]	148553-50-8			Antiepileptic	Epilepsy, general
Pregnan-3α-ol-20-one	Eine 3 0 dies 2 ans 47.79 hudming 4	128-20-1			•	: !
Premarin + trimegestone	oxpropyl)-17-methyl-, [178 (S)]- [CAS]	74513-62-5			Menopausal disorders	Hormone replacement therapy
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API Generic Name		CAS No.	Reference	ence	Example of Therapeutic Use	Example of Indication
:	Phenol, 4-[2-hydroxy-3-[(1-methylethyl)aminolpropoxy]-,	57526-81-5	-			
prenalterol			2	1470039	Cardiostimulant	
Prenoxdiazine		982-43-4				
Prenylamine		390-64-7				
	Cuprate(1-), (N2-(N-glycy+L-histidyl)-L- hsinato)(N2-(N-dlycy+L-histidyl)-L-					
prezatide	lysinato(2-)-, hydrogen, [CAS]	130120-57-9			Vulnerary `	Wound healing
Pridinol		511-45-5				
Prifinium		4630-95-9				
Prilocaine		721-50-6				
Primaquine		90-34-6				
Primidone		125-33-7				
Prinomastat		192329-42-3				- for extra triby a second tribudes
PRO-2000			S S	5614599	Antiviral, anti-HIV	intection, MIV propriylaxis
Probenecid		57-66-9				
Probucol		23288-49-5				
proceinamide	Benzamide, 4-amino-N-[2- (diethylamino)ethyl]- [CAS]	51-06-9 614-39-1	-		Formulation, other	Arrhythmia, general
Omorino		59-46-1				
riceanne	•	671_18_0				
Procarbazine	September 1	6-01-170	•			
	2(1n)-Lumonnome, e-nydroxy-5-(1-nydroxy)-55025-07-6 [2-[(1-methylethyl)amino]butyll-,	55626-07-5 60443-17-6			•	
procaterol	monohydrochloride [CAS]	72332-33-3	GB 1	1496766	Antiasthma	
	10H-Phenothiazine, 2-chloro-10-[3-(4-methyl-1-oineraziny) proporte. (2)-2-	58-38-8				
prochlorperazine		84-02-6			Formulation, oral, other	Nausea and vomiting, general
procedazol	1H-Benzimidazole-2-propanoic acid (CAS) 23249-97-0		ES 4	407882	Anticancer, immunological	Cancer, general
Procyclidine	:	77-37-2				•
Procymate		13931-64-1				
Prodipine		31314-38-2				
Proflavine		92-62-6				
Progabide		62666-20-0				

API Generic Name progesterone	API Chemical Name Pregn-4-ene-3,20-dione [CAS]	CAS No. 57-83-0	Patent Referen	Patent Reference	Example of Therapeutic Use Formulation, transmucosal, systemic	Example of Indication Amenorthoea
i mada ain	1H-Indole-3-acetic acid, 1-(4- chlorobenzoyl)-5-methoxy-2-methyl-, 2-(4- (3-((4-(benzoylamino)-5-(dipropylamino)- 1,5-dioxopentyl)oxy)propyl}-1- nizazzinylethylester, (4-)- [CAS]	57132-53-3 59209-40-4	8	1467568	Anti-inflammatory	Inflammation, general
proglumide	Pentanoic acid, 4-(benzoylamino)-5- (dipropylamino)-5-oxo-, (+/-)- [CAS]	6620-60-6	씸	1518125	Antiuloer	Ulcer, gastric
Proheptazine Prolactin Prolintane Prolonium		9002-62-4 493-92-5 123-47-7				
Promazine Promedol Promegestone		58-40-2 64-39-1 34184-77-5			,	
promestriene Promethazine	Estra-1,3,5/10)-trefre, 1/-fretrioxy-3- propoxy-, (178)- [CAS]	39219-28-8 60-87-7 54 90 9	9	1337198	Reproductive/gonadal, general	Аспе
Pronetnatol propacetamol	Glycine, N,N-diethyt-, 4- (acetylamino)phenyl ester [CAS] 1-Propanone, 1-{2-12-hydroxy-3-	66532-86-3	SA	4127671	Formulation, parenteral, other	
propatenone Propagermanium	(propylamino)propoxyjphenyl-3-phenyl- [CAS]	54063-53-5 12758-40-6 545-03-7	89	1307455	Antiarrhythmic	Fibrillation, ventricular
Propalitylonal Propamidine propane-1,2-diol Propanidid	1,2-propanediol	104-32-5 57-55-6 1421-14-3 50-34-0			Formulation, dermal, topical	Infection, fungal, general
Proparacaine Propatyl propenidazole	ethyl trans-Alpha-acetyl-1-methyl-5- nitroimidazole-2-acrylate	499-67-2 2921-92-8 76448-31-2			Antifungal	Infection, trichomoniasis

			Patent			
API Generic Name	API Chemical Name	CAS No.	Reference	9	Example of Therapeutic Use	Example of Indication
propentofylline	116-Funne-c, o-dunie, 5,7-dinjui o-d-meuryr, 1-(5-oxohexyl)-7-propyl- [CAS]	55242-55-2	GB 147	1470220	Neuroprotective	Ischaemia, cerebral
Propicillin		551-27-9				
Propiomazine		362-29-8	··			
Propionic Acid		79-09-4				
	1-Propanaminium, 3-carboxy-N.N.N- trimethyl-2-(1-oxopropoxy)-, chloride, (R)-	119793-66-7				
propionyl L-camitine	[CAS]	20084-19-1	CB 200	2008578	Vasodilator, peripheral	Penpheral vascular disease
Propipocalne		3670-68-6		-		
Propiram		15686-91-6				
		54556-98-8				
propiverine	methyipipend 4-yi) ester hydrochlonde	50569-14-8			Uniogical	
Propizepine		10321-12-7				
propofol	Phenol, 2,6-bis(1-methylethyl)- [CAS]	2078-54-8	US 405	4056635	Anaesthetic, injectable	Anaestnesia
Propoxycaine		550-83-4				
Propoxyphene						
Monarca	2-Propanol, 1-((1-methylethyl)aminoj-3-(1-	318-98-9 525-66-6			Formulation modified-release <=24hr Hvoertansion general	Hypertension, general
propractions		3 97 797				
Propylhexedrine		101-40-6				
Propyliodone	-	587-61-1				
Propylthiouracil	-	51-52-5				
Propyphenazone		479-92-5				
Proquazone		22760-18-5		•		
Proscillaridin		466-06-8				
Prostacyclin		35121-78-9				
Prostaglandin E		745-65-3		-		
Prostaglandin E2		363-24-6				
Prostagiandin F22		551-11-1				
Prosuttiamine		59-58-5				
Protein C		60202-16-6				
Protheobromine		50-39-5			•	
Prothipendyl		303-69-5				

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	ADI Chemical Mame				Committee of Thomasondie IIco	Evample of Indication
Protiofate		58416-00-5			Example of Therapeure ose	CAAIIIDIG OI IIIGICARIOII
Protionamide		14222-60-7				
	10H-Phenothiazine-2-acetic acid, 7-					
protizinic acid	methoxy-Alpha, 10-dimethyl-, (+/-)- [CAS]	(0)	US 345	3450698 /	Anti-inflammatory	
Protoanemonin		108-28-1				
Protokylol		136-70-9				
Protoporphyrin IX		553-12-8				
Protriptyline		438-60-8				
Pro-Urokinase		82657-92-9	*****			
Proxazole		5696-9-3				-
Proxibarbal		2537-29-3				
proxigermanium	Propanoic acd, 3,3-(1,3-dioxo-1,3-digermoxanediy/bis- [CAS]	12758-40-6	FR 200	2005110	Antiviral, other	Infection, hepatitis-B virus
Proxyphylline		603-00-9				
Prozapine		3426-8-2				
Prucalopride		179474-81-8				
	1H,4H-f1,3]Thiazeto[3,2-a]quinoline-3-carboxylic acid, 6-fluoro-1-methyl-7-{4-[(5-					
polifloxacin	methył-2-oxo-1,3-dioxol-4-yl)methylj-1- oberazinyli-4-oxo-ICASI	123447-62-1	FD 315828		Oningland antiharderial	Infection, respiratory tract,
ocaine						3
	Benzenemethanol, Alpha-11-			-		
	(methylamino)ethylj-, hydrochloride, [S-	,				
	(K',K')F, mixt. win (C)-z-11-(4- methythenyl)-3-(1-pyrrolidinyl)-1-					•
pseudoephedrine + triprolidine	propeny/lpynidine monohydrochloride [CAS]				Formulation modified-release other	Rhinitis alleraic neneral
	Benzenemethanol, Alpha-(1-	90-82-4, 8054-27-		<u> </u>		Infection, respiratory tract,
pseudoephedrine	(methylamino)ethylj-, [S-(R*,R*)]- [CAS]	1, 345-78-8		<u></u>	Formulation, oral, other	general
Psilocybin		520-52-5			***************************************	
	Benzonitrie, 4-(3-(4-hydroxybutyl)-4,4- dimethyl-2,5-dioxo-1-imidazolidinyl}-2-					
PSK-3841	(trifluoromethyl)- [CAS]	154992-24-2	-		Dermatological	Alopecia, general

API Generic Name p-Sulfanilylbenzylamine	API Chemical Name	CAS No.	Patent Reference	Example of Therapeutic Use	Example of Indication
PT-141 Pteropterin Puromycin	1-Methypropyl 2-mercaptoimidazolyl	89-38-3 53-79-2	US 6051555	Male sexual dysfunction	Impotence
Px-12 Pyrantel Pyrazinamide Pyridinol Carbamate	disulfide	15686-83-6 98-96-4 1882-26-4		Anticancer, other	Cancer, general
Pyridoxal 5-Phosphate Pyridoxine Pyrilamine Pyrimethamine		54-47-7 58-56-0 91-84-9 58-14-0			
Pyrinoline Pyrisuccideanol Pyrithione Pyrithyldione		1740-22-3 33605-94-6 1121-30-8 77-04-3 1098-97-1			
Pyrocatechol Pyrogallol Pyronaridine Pyrovalerone	·	120-80-9 87-66-1 74847-35-1 3563-49-3			
Pyroxylin Pyrrobutamine Pyrrocaine Pyrrolnitrin Pyrvolnitm Pamoate		90.4-70-0 91-82-7 2210-77-7 1018-71-9 3546-41-6			

			Patent	¥		
API Generic Name	ģ	CAS No.	Refe	Reference	Example of Inerapeutic Use	Example of indication
quazepam	o-(z-nuoropinenyi)- 1,5-amyaro- 1-(z,z,z- trifluoroethyl)- [CAS]	36735-22-5	g	3845039	Hypnotic/Sedative	Insomnia
Quercetin		117-39-5				
	Ethanol, 2-{2-(4-dibenzo[b,f][1,4]thiazepin- 11-yt-1-piperaziny)ethoxyj-, (E)-2-	111974-69-7			:	
quetiapine	butsnedioate (2:1) (saft) [CAS]	111974-72-2	<u>B</u>	240228	Neuroleptic	Schizophrenia
Quinacillin	;	1596-63-0				
	N-(6-Chloro-2-methoxy-9-acridinyl)-N,N-diethyf-1,4-pentanediamine + 10H-	83-89-6				
	Prenomiazine-10-propanamine, z-cingo-					
quinacrine	•				Neurological	Creutzfeldt-Jakob disease
	Suifamide, N,N-diethyl-N*- (1,2,3,4,4a,5,10,10a-octahydro-6-hydroxy- 87056-78-8	87056-78-8				
quinagolide	1-propyibenzogjquinoum-3-yn-, (34pha,4aApha,10aß- (+/-)- [CAS]	94424-30-7 97805-49-7	G.	45777	Antiprolactin	Hyperprolactinaemia
	3-Isoquinolinecarboxylic acid, 2-[2-[[1-	82588-55-8				
quinapril	oxopropyl-1,2,3,4-tetrahydro-, [3S- [z[R*(R*)],3R*I]- [CAS]	85441-61-8 90243-99-5	<u>a</u>	49605	Anthypertensive, renin system	Hypertension, general
	3-isoquinolinecarboxylic acid, 2-{2-{(1-carboxy-3-phenylpropyl)amino}-1-oxppropyl]-1,2,3,4-tetrahydro-, [3S-					·
quinaprilat	[z[R*(R*)].3R*]]- [CAS]	82768-85-2	<u>a</u>	46953	Antihypertensive, renin system	Hypertension, general
Quinapyramine		20493-41-8				
Quinbolone		2487-63-0				
Quinestradiol		1169-79-5				
Quinestrol		152-43-2				
Quinethazone		73-49-4				
quinfamide	2-Furancarboxylic acid, 1-(dichloroacetyl)-1,2,3,4-tetrahydro-6-quinolinyl ester [CAS] 62265-68-3	62265-68-3	മ	3997542	Amoebicide	
quinidine	Cinchonan-9-ol, 6'-methoxy-, (9S)-, sulfate 747-45-5 (1:1) (salt) [CAS] 56-54-2	747-45-5 56-54-2			Formulation, modified-release, other	Arrhythmia, general

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API Generic Name	API Chemical Name	CAS No.	Refe –	Reference	Example of Therapeutic Use	Example of Indication
Collillio		7 70 203				
Quinocide		1-10-070				
Quinupramine		31721-17-2				
Quinupristin		120138-50-3				
	cis-2,3,3a,8-tetrahydro-N,N- dimethyddibonafe flicocamhol? 3-alazanina					
R-107500	2-methanamine		Ş Ş	9614320	Anxiolytic	Anxiety, general
R-667	;		80	WO 0204439	COPD treatment	Emphysema, general
	1H-Benzimidazole, 2-III4-(3- methoxypropoxy)-3-methyl-2- madinulmethallsuffantl.	117976-89-3				
rabeprazole	[CAS]		<u>a</u>	268956	Antiuloer	Ulcer, gastric
	Gycine, N-[2-[(acetythio)methyl]-1-oxo-3- phenypropyl]-, phenyfmethyl ester, (+/-)-			90	1111	Contraction
racecadotri				90/90	Andalmoea	Darinoca, garera
Racemethorphan		510-53-2				
гающене	Methanone, [6-hydroxy-2-(4- hydroxyphenyl)benzo[b]thien-3-y[[4-[2-(1- pipendinyl)ethoxy[phenyf]-, hydrochloride [CAS]	82640-04-8 84449-90-1	<u>B</u>	62503	Osteoporosis treatment	Osteoporosis
	L-giutamic acid, N-I[5-I[(1,4-dihydro-2-					
rattitrexed	methyr 4-oxo-5- quinazolinyl)methyljmethylamino]-2- thlenyljcarbonylj- (CAS)	112887-68-0	<u>&</u>	238362	Anticancer, antimetabolite	Cancer, colorectal
smetroken	9H-Carbazole-9-propanoic acid, 3-ff(4- fluorophenyl)sulfonyljaminoj-1,2,3,4- ternahufon- (Rt-fCAS)	116849-85-5	<u> </u>	242518	Antielleraic non-asthma	Rhinitis alleroic perennial
Ramifenazone						
	Cyclopenta[b]pymole-2-carboxylic acid, 1- [2-[[1-(ethoxycarbonyl)-3- oben-dromondlaminol-1-					
, ramipril	oxopropyljodahydro, [2S- [1]R*(R*)],2Apha,3a6,6a8],F(CAS)	87269-97-4 87333-19-5	<u> </u>	79022	Anthypertensive, renin system	Heart failure
гатоѕеtrол	Methanone, (1-methyk-1H-indol-3- yl)(4,5,6,7-tetrahydro-1H-benzimidazol-5- yl)-, monchydrochkoride, (R)- [CAS]	132907-72-3 132036-88-5	a	381422	Antiemetic	Nausea and vomiting, general

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API Generic Name Ramot project No. 1097	API Chemical Name	CAS No.	Refer US 55	Reference US 5730992	Example of Inerapeutic Use Dermatological	Example of Indication Unspecified
Ranimustine		58994-96-0				
ranibdine	1,1-Ethenediamine, N-{2-{[[5- {(dimethylamino)methyl}-2- furanylimethyl†thiojethyl}-N'-methyl-2-nitro- [CAS]	66357-35-5	8 4	4128658	Antiuloer	Ulcer, duodenal
ranitidine bismuth citrate	i.2.3-Propanetricarboxylic acid, 2-hydroxybisaruth(3+) satt (1:1), compd. with N-(2-(((5-((dimethylamino)methyl)-2-furanyl)methylythio)ethyl)-N-methyl-2-ni1-ethenediamine (1:1)- [CAS]	128345-62-0	<u> </u>	533281	Antiuloer	Ulcer, duodenal
ranolazine	1-Piperazineacetamide, N-(2,6-dimethytphenyl)-4-(2-hydroxy-3-(2-methoxyphenoxy)propyl}-, (+/-)- [CAS]	95635-55-5 95635-56-6	<u>8</u>	126449	Antianginal	Angina, general
Ranpimase		133737-96-9				
rasagiine	1H-Inden-1-amine, 2,3-dihydro-N-2- propymyt-, (R)-, [CAS]	161735-79-1	S	5457133	Antiparkinsonian	Parkinson's disease
Raubasine	•	483-04-5				•
ravuconazole	Benzonitrie, 4-[2-[(1R,2R)-2-(2,4-difluorophenyl)-2-hydroxy-1-methyl-3-(1H-12,4-triazo+1-yl)propyl]-4-triazohyl-[CAS] 182760-06-1	182760-06-1			Antifungal	Infection, meningitis, general
raxofelast	2-Benzofuranacetic acid, 5-(acetyloxy)-2,3- dihydro-4,6,7-trimethyl-, (+)- [CAS]	128232-14-4	ജ	4999350	Symptomatic antidiabetic	Nephropathy, diabetic
razoxane	2,6-Piperazinedione, 4,4'-(1-methyl-1,2-ethanediyl)bis- [CAS]	21416-67-1, 21416 87-5	89	1234935	Anticancer, other	Cancer, general
	Tetradecanoic acid (1R)-1-(2-((2-(2-deoxy 3-O-((3R)-1-oxo-3-((1-oxo-3-(1-ox					
RC-529	diethylethanamine (1:1) [CAS]	216014-46-9			Immunostimulant, other	Vaccine adjunct
rebamipide	4-Quinolinepropanoic acid, Apha-{(4- chlorobenzoyl)aminoj-1,2-dihydro-2-oxo- [CAS]	90098-04-7	DE 3	3324034	Antiuker	

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API Generic Name	Name 2S)-2-mercapto-1-oxo-4	CAS No.	Refere	nce	Example of Therapeutic Use	Example of Indication
rebimastat	-N,3-dimethyl-	259188-38-0			Anticanoer, other	Cancer, lung, non-small cell
reboxetine	Morpholine, 2-{(2- ethoxyphenoxy)phenylmethylj-, (R*,S*)- [CAS]	71620-89-8, 98769 81-4	SN	4229449	Antidepressant	Depression, general
Remacemide		128298-28-2				
	1-Piperidinepropanoic acid, 4- (methoxycarbonyl) 4-((1- oxopropyl)phenylamino)-methyl ester- [CAS]	132539-07-2, 132875-61 <i>-7</i>	<u>a</u>	383579	Analgesic, other	Pain, general
reminertant	Tricydo[3.3.1.13,7]decane-2-carboxylic acid, 2-[[1-(7-chloro-4-quinolinyl)-5-(2.6-dimethoxyphenyl)-1H-pyrazol-3-yljcarbonyljamino]- [CAS]	146362-70-1	<u></u>	699438	Neuroleptic	Schizophrenia
Remoxipride		80125-14-0				
	Benzamide, 4-amino-N-1- azabicyclo(3.3.1)non-4-yl-5-chloro-2- methoxy- [CAS]	109872-41-5 88721-77-1	<u>ح</u>	58188885	Gastroprokinetic	Initable bowel syndrome
repaglinide	Benzoic acid, 2-ethoxy-4-{2-{13-methyl-1-{2} (1-piperidinyliphenyl/butyl/amino}-2- oxoethyl]-, (S)- [CAS]	135062-02-1	<u>§</u>	WO 9300337	Antidiabetic	Diabetes, Type II
repertaxin L-tysine saft	2(R)-4-Isobutylphenylpropionyl methanesulfonamide L-lysine salt		8	WO 0024710	Cardiovascular	Reperfusion injury
neokrotan	1,2-Benzisothiazoł-3(2H)-one, 2-(4-(((3,4-dilydro-2H-1-benzopyran-2-yl)methyl)amino)butyl)-, 1,1-dioxide, monohydrochloride [CAS]	144980-29-0 144980-77-8	SU SU	5137901	Neuroprotective	Ischaemia, cerebral
repirinast	4H-Pyrano[3,2-c]quinoline-2-carboxylic acid, 5,6-dihydro-7,8-dimethyl-4,5-dioxo-, 3-methyfbutyl ester [CAS]	73080-51-0	<u>ಸ</u>	4298610	Antiasthma	
Reposal		3625-25-0				

			Patent Potent	Patent	Example of Thersheitlic lice	Example of Indication
API Generic Name	API Chemical Name 11H-Purine-2,6-dione, 7-{3-[[2-{3,5-	CAS NO.	<u> </u>			
	dihydroxyphenyl)-2- hydroxyethyljamino]propyl]-3,7-dihydro-1,3-13055-82-8					
reproterol	dimethyl- [CAS]		=_ 또	M5969	Antiasthma	Asuma
Rescimetol		73573-42-9	!			-
Rescinnamine		24815-24-5				
Reserpiline		131-02-2				
Reserpine		50-55-5				
Resibufogenin	:	465-39-4				
	11H-imidazo(4,5-c)quinoline-1- ethanol(ethoxymethyl)-Apha, Alpha-	444075 40.0	<u> </u>	6380640	Anthrical other	Infection hepatitis-C virus
resiquimod	cameuny-[cx5]	500000				
Resorcinol		108-46-3				•
Reteplase		133652-38-7				
	Carbamic acid, (2-amino 4-(((4- fluorophenyl)methyl)amino)phenyl)-, ethyl					
retigabine	ester [CAS]	150812-12-7	범 ;	4200259	Antiepileptic	Epilepsy, general
retinoic acid	Retinolc acid [CAS]	302-79-4			Formulation, parenteral, other	myelogenous
Revirtid			ဗ္ဘ	6281230	Anticancer, other	Cancer, myeloma
	[1,1-Bipheny] 4-acetic acid, 2-fluoro-					
R-flurbiprofen	i ingrisarit	5104-49-4		ļ	Anticancer, other	Cancer, prostate
				}		
Globulin (Kuman)			Ş	0000		· · · · · · · · · · · · · · · · · · ·
Rho-kinase inhibitors			2	9980615	Angasuma	Carried and a second and
ribavirin	(1F-1,2,4-Triazole-3-carboxamide, 1-15-D- ribofuranosyl- [CAS]	36791-04-5	8	4211771	Antiviral, other	Infection, haemormagic fever
Riboflavin		146-17-8	i	: : : ! !		:
	D-Streptamine, O-2,6-diamino-2,6-dideoxy. Apha-D-glucopyranosyl-(1-4)-O-[8-D-					
ribostamycin	ribofuranosyl-(1-5)]-2-deoxy- [CAS]	25546-65-0	සු	1254883	Aminoglycoside antibiotic	Infection, general
Ricinoleic Acid		141-22-0	1	!	. 1	
Ridogrei		110140-89-1				

			Patent	15		
API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
rifabutin	Rifamycin XIV, 1',4-didehydro-1-deoxy-1,4- dihydro-5'-(2-methypropyl)-1-oxo-[CAS]	72559-06-9	Sn :	4219478	Antimycobacterial	Infection, Mycobacterium avium complex
rifalezii	Rifamycin VIII, 1',4-didehydro-1-deoxy-1,4- 129791-92-0 dihydro-3'-hydroxy-5'-[4-(2-methylpropyl)-1-129791-94-2 piperazinyl]-1-oxo- [CAS]	129791-92-0 129791-94-2 133633-12-2		366914	Antimycobacterial	Infection, tuberculosis
тівтевале	Rifamycin, 3-III1- (diethylamino)ethylidene)hydrazonojmethy Ip-[CAS]	94168-98-6	<u> </u>	119571	Antimycobacterial	Infection, general
Rifamide		2750-76-7	; 			
rifanpicin + trinethoprim	Rifamycin, 3-[[(4-methyt-1- piperaziny))iminojmethyl-, mixt. with 5- [(3,4,5-trimethoxyphenyl)methylj-2,4- pyrimidinodiamino [CAS]	61498-94-0			Formulation, fixed-dose combinations	Infection, general
Rifampin		13292-46-1		1		
Rifamycin SV		6998-60-3		•		:
rifapentine	Rifamycin, 3-II(4-cyclopentyl-1- piperazinyl)iminolmethyl-[CAS]	61379-65-5	出	2608218	Antibiotic, other	Infection, tuberculosis
	Epoxypentadeca[1,11,13]trienimino)benzo furo[4,5-e]-pyrido[1,2-e]benzimidazole- 1,15(ZH)-dione, 25-(acetyloxy)-5,6,21,23- tetrahydroxy-27-methoxy- 2,4,11,16,20,22,24,26-octamethyl-, [25- (2R*,16Z,18E,20R*,22S*,24S*,25R*,					·
rifaximin		80621-81-4	89	2079270	Antibiotic, other	Infection, GI tract
rifeximine cream	4-deoxy-4'-methytpyndo[1',2'- 1,2jimidoazo[5,4-c]rifamycin SV	80621-81-4	띪	888895	Formulation, dermal, topical	Infection, dermatological
Rilmazafone		99593-25-6				
ritmenidine	2-Oxazolamine, N-(dicyclopropy/methyl)- 4,5-dihydro- [CAS]	54187-04-1 54249-57-9	끮	2362754	Antihypertensive, adrenergic	Hypertension, general
rituzole	2-Benzothiazolamine, 6-(miluoromethoxy)- [CAS]	1744-22-5	<u>.</u>	50551	Neuroprotective	Amyotrophic lateral scienosis
Rimantadine		13392-28-4		·		

ADI Generic Name		CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
	4H-Pyrido/1,2-alpyrimidinium, 3-					
	-9'1-or	28610-84-6				
rimazolium	dimethyl-4-oxo-, [CAS]	35615-72-6	֝֟֝֟֝֟֝֟֝ ֚	2461349	Anaigesic, NSAID	
	Androsta-1,4-dien-3-one,11-hydroxy-16,17-					
inavalana	dimetry-1 /-(1-oxopropyr)-, (11ft 16Alpha 17ft)- [CAS]	49697-38-3	씸	2301317	Ophthalmological	Inflammation, ocular
		22052 00 2				,
Rimiterol		2-80-08-7	:			
	1H-Pyrazole-3-carboxamide, 5-(4-					
	chlorophenyl)-1-(2,4-dichlorophenyl)-4-					
	methyt-N-1-ppendinyt-,				:	
rimonabant	monohydrochloride [CAS]	158681-13-1		5624941	Anorectic/Antiobesity	Coesny
riodoxol	1,3-Benzenediol, 2,4,6-triiodo- [CAS]	19403-92-0	8	3755251	Antiviral, other	
Rioprostil		77287-05-9	i	!		
			İ	:		
	Phosphonic acid, (1-hydroxy-2-(3-					:
risedronate	pyridinyl)ethylidene)bis-, monosodium salt 115436-72-1	115438-72-1	Gi .	304961	Osteoporosis treatment	Paget's disease
Risedronic Acid		105462-24-6				
	AL Durdolf 2 sharimidin 4 one 3-12-14-16				•	
	fluoro-1,2-benzisoxazol-3-yl)-1-					
	piperidinyljethylj-6,7,8,9-tetrahydro-2-	-			Neuroleptic, formulation, optimized,	
risperidone	methyl- [CAS]	106266-05-2	ا بھ	196132	microencapsulate	Schizophrenia
Ritanserin		87051-43-2	i		:	;
Ritipenem		84845-57-8				
	Benzenemethanol, 4-hydroxy-Apha-[1-[[2-				•	
	(4-hydroxyphenyl)ethyljaminojethylj-,	23239-51-2				
ritodrine	(R*,S')- [CAS]	26652-09-5	3	3410944	Labour inhibitor	Labour, preterm
	2,4,7,12-1etrazzatroecan-13-osc ado, 10-					
	methylathyl 4-thiazolyl-3 6-dioxo-8.11-					
	histopendmethyle, 5-thiazok-methyl					
ritonavir	ester, (5S-(5R*,8R*,10R*,11R*))- [CAS]	155213-67-5	§	9414436	Antiviral, anti-HIV	Infection, HIV/AIDS
Rituximab		174722-31-7			:	
	Carbamic acid, ethylmethyl-, 3-(1-		!	•		
orimento	(dimethylamino)ethyljphenyl ester, (S)-	123441-03-2 129101-54-8	ළ	3805744	Cognition enhancer	Alzheimer's disease
IIVASSUBILIERO	المسا	200	7			

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API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
	amine, N.N-dimethyl-5-	:	! 1		•	
rizatriptan	(1H-1,2,4-triazol-1-ylmethyl)-, [CAS]	144034-80-0	<u> </u>	497512	Antimigraine	Migraine
RJR-2403	3-Buten-1-amine, N-methyl-4-(3-pyridinyl)- (3E)-, (2E)-2-butenedioate (1:1) [CAS]	183288-99-5			Cognition enhancer	Aizheimer's disease
RNA Stealth Nucleosides	5-Formylundine		ı		Antiviral, other	Infection, hepatitis-C virus
Ro-0094889	2,3'-Di-O-acetyl-5'-vinylcytidine				Anticancer, antimetabolite	Cancer, general
Ro-61-1790	2-Pyridinesulfonamide, N-[6-(2-hydroxyethoxy)-5-(2-methoxyphenoxy)-2-[2-(1H-tetrazol-5-yf)-4-pyridinyf]-4-pyridinyf]-4-pyridinyf]-6-methyl-[CAS]	180384-56-9	WO	9619459	Cardiovascular	Haemorrhage, subarachnoid
Rociverine		53718-44-2	·			
unipunisa	Pyrolidinium, 1- [(28,3Apha,5Apha,168,178)-17- (acetyloxy)-3-hydroxy-2-{4- morpholinyl)androstan-16-yl]-1-(2- procenyl-, bromide-[CAS]	104855-17-6 104884-91-5 119302-91-9 143558-00-3	£	287150	Muscle relavant	Muscle spasm, general
	2(5H)-Furanone, 4-(4-					
rofecoxib	(methytsuffonyl)phenyl-3-phenyl-[CAS]	162011-90-7	3 :	5474995	Analgesic, NSAID	Arthritis, osteo
roflumilast	Benzamide, 3-(cyclopropyimethoxy)-N- (3,5-dichloro-4-pyridinyl)-4- (difluoromethoxy)- [CAS]	162401-32-3	9	9501338	COPD treatment	Chronic obstructive pulmonary disease
rokitamycin	Leucomycin V, 46-butanoate 35- propanoate [CAS]		Sn	4242504	Macrolide antibiotic	Infection, general
Rolipram		61413-54-5				
Rolitetracycline		751-97-3				,
Romurtide		78113-36-7				
Ronifibrate	: : : : : : : : : : : : : : : : : : : :	42597-57-9				:
ropinirole	2H-Indol-2-one, 4-[2-(dipropylamino)ethyl]- 91374-20-8 1,3-dihydro-, monohydrochloride- [CAS] 91374-21-9		6	266033	Antiparkinsonian	Parkinson's disease

			Patent	ant .		
API Generic Name	API Chemical Name	CAS No.	Ref	Reference	Example of Therapeutic Use	Example of Indication
	2-Pipendinecarboxamide, N-(2,6-	84057-95-4	1			o i contraction
ropivacaine	dimethylphenyl)-1-propyt-, (S)- [CAS]	98/1/-15-8	<u>р</u> .	01/857	Angesmenc, rocal	A adou i a a a a a a a a a a a a a a a a a a
Roquinimex		84088-42-6				
	Cyclopentaneheptanoic acid, 2-hexyt-5-	0 00 0000	5	2000		
rosaprostol	hydroxy- [CAS]	90030-03-8	<u>9</u>	1523355	Prostagiandin	
Rosaramicin		35834-26-5	•			
Rose Bengal		632-68-8				
	2.4-Thiazolidinedione, 5-((4-(2-(methyl-2-pyridinylamino)ethoxy)phenyl)methyl)-, (Z)-122320-73-4	122320-73-4				
rosiglitazone	2-butenedioate (1:1) [CAS]	155141-29-0	ဒ္ဓ	5002953	Antidiabetic	Diabetes, Type II
rosoxacin	3-Quinoinecarboxilic acid, 1-ethyl-1,4- dthydro-4-oxo-7-(4-pyridinyl)- [CAS]	40034-42-2	S	3753993	Quinofone antibacterial	Infection, gonorrhoea
	Tin, dichlorolethyl 3,4,20,21-tetradehydro-4,9,14,19-tetraethyl-18,19-dihydro-		!			
	3,8,13,18-tetrametry4-20- phorbinecarboxylato(2-)-					
rostaporfin	kappaN23,kappaN24,kappaN25,kappaN2 6]-, (OC-6-13)- [CAS]	114494-17-6			Ophthalmological	Macular degeneration
	6-Heptenoic acid, 7-(4-(4-fluorophenyl)-6-					
	(1-methyfethyl)-2- (methyf(methyfsuffonyl)amino)-5-					
rosuvastatin		147098-20-2	<u>e,</u>	2648897	Hypolipaemic/Antiatherosclerosis	Hyperlipidaemia, general
	1-Naphthalenol, 5,6,7,8-tetrahydro-6- [propyl[2-(2-thienyl)ethyl]amino]-, (S)-				•	
rotigotine	[CAS]	99755-59-6	ട്ട	4564628	Antiparkinsonian	Parkinson's disease
Rotraxate		92071-51-7				
Roxarsone		121-19-7	i			,
roxatidine	Acetamide, 2-(acetyloxy)-N-[3-[3-(1-pipendinylmethyl)phenoxyjpropylj-, [CAS]	78628-28-1 93793-83-0	<u> </u>	24510	Antiulcer	Uker, gastric
	L-Alanine, 3-(((3-(4-		:			
roxifiban	(butoxycarbonyl)-, methyl ester, (R)-, [CAS]	176022-59-6	8	5849736	Antithrombotic	Thrombosis, general
Roxindole		112192-04-8				

API Generic Name	API Chemical Name		Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
roxithromycin	Erythromycin, 9-{0-{(2- methoxyethoxy)methyljoxime] [CAS]	80214-83-1 80214-86-4	<u>.</u>	33255	Macrolide antibiotic	infection, general
	Benzenepropanoic acid, B-(((1,1-					
	dimetry/etnoxy/carocny/jamino/-kipita-hydroxy- hydroxy- (1S,2S,4S,7R,8aR,9aS,10aR,12aS,12bR)-					
	1,347,8,9,9a,10,10a,12,12a,12b-dodecahydroxy-5,13,12b-timethyl-					
RPR-109881A	8-oxo-2,6-methano-2H-cychodeca(3,4) cyclopropa (4,5) benz (1,2-b) oxet-4-yl ester, dihydrate Alpha R, betaS [CAS]	192573-38-9			Anticancer, other	Cancer, lung, general
	4,9-Ethano-3aH-benz[f]isoindole-3a-carboxylicacid, 1,2,3,4,9,9a-hexahydro-2-[2-(2-methoxyphenyl)-1-oxo-2-propenyl]-9-					
RPR-130401	(4-methyiphenyl)-, (3aR,4S,9S,9aK)-ref- [CAS]	210282-69-2	Š	9829390	Anticancer, other	Cancer, general
R-roscovitine			ŝ	6316456	Anticancer, other	Cancer, lung, non-small cell
	NN-bis(3-hydroxyphenyl)pyridazine-3,6-diamine		,	!		
RS-0406					Neuroprotective	Atzheimer's disease
RSR-13		131179-95-8		:		
Rubijervine		79-58-3				
rubitecan	1ff-Pyrano(3',4':6',7) indolizino(1,2-b)quinoline-3,14(4H,12H)-dione,4-ethyl-4-hydroxy-10-nitro-,(S)-[CAS]	91421-42-0	ಬ	6485514	Anticancer, other	Cancer, pancreatic
	9H,18H,5,21:12,17- Dimethenodiberzo(e,k)pymolo(3,4- IVI 4 19)ovadiazaradohezaderine-		!	1		
	18,20(19H)-dione,9- ((dimethylamino)methyl)-6,7,10,11-					
nuboxistaurin	tetrahydro-, (S)- [CAS]	169939-94-0	į	· 	Symptomatic antidiabetic	reunopauny, diabeuc
Rufinamide		106308-44-5				

			Patent	2		
API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
nfloxacin	7H-Pyrido[1,2,3-de]-1,4-benzothiazine-6- 101363-10-4 carboxylic acid, 9-fluoro-2,3-dihydro-10-(4- 102052-47-1 methyl-1-piperazinyl)-7-oxo-[CAS] 106017-08-7	101363-10-4 102052-47-1 106017-08-7	<u>.</u>	165375	Quinolone antibacterial	Infection, general
rupatadine Rutin	5H-Benzo[5,6]cyclohepta[1,2-b]pyridine, 8-chloro-6,11-dihydro-11-[1-[(5-methyl-3-pyridinyllymethyl]-4-piperidinylidene]-, trihydrochloride- [CAS]	15611-76-6 153-18-4	<u>.</u>	0577957	Antiallergic, non-asthma	Rhinitis, allergic, seasonal
RWJ-54428		189448-35-9	WO	9713772	Cephalosporin, injectable	Infection, beta-lactamase resistant
S-0139	Olean-12-en-28-oic acid, 27-[[3-[5-hydroxy- 2-[(4-methoxy-1,4-dioxo-2- butenyi)amino]phenyi]-1-oxo-2- propenyi]oxyj-3-oxo- [CAS]	193969-54-9	9	9727314	Cardiovascular	Ischaemia, cenebral
S-15535	Piperazine, 1-(2,3-dihydro-1,4-benzodioxin-5-yl)-[CAS] 146998-34-7	146998-34-7			Cognition enhancer	Cognitive disorder, general
S-18886	1-Napthalenepropánoic acid, 6-(((4- chlorophenyl)sulfonyl)amino)-5,6,7,8- tatrahydro-2-methyl (CAS)	165537-73-5			Antithrombotic	Thrombosis, general
S-34730	7-chloro-6-sulfamoyl-2-(1H)-quinoleinone- 3-phosphonic acid				Neuroprotective	Unspecified
	7642-(5-anino-1,2,4-thiadiazol-3-yl)-2(2)-ethoxyminoacetamidol-3-(1-(N-methylaminopropyl)-1H-imidazol4,5-bjpyrdinium-4-methyl-3-cephem-4-arbovate monosulfate			•	:	
S-3578					Cephalosporin, injectable	Infection, general

API Generic Name	mical Name	CAS No.	Patent Reference		Example of Therapeutic Use	Example of Indication
	2-{N-{4-{4- Chlorophenylsulfonylamino}butyf}-N-{3-{(4- isopropylthiazol-2- yl)methyloxyjbenzyf}sulfamoyf}benzoic					
S-36496				₹_	Antiasthma	Asthma
S-36527	2-(N-[4-(4- Chlorophenylsulfonylamino)butylj-N-(3-[2- (4-cyclobutylthiazol-2- yl)ethyljbenzyljsulfamoyl)benzoic acid		······································	₹	Antiasthma	Asthma
	(1R,2R,3S,5S)-7-{2-(5- Hydroxybenzothiophen-3-y/carboxamido)- 6,6-dimethylbicydo[3.1.1]hept-3yl]-5(2)-					
S-5751	heptenoic acid			₹	Antiallergic, non-asthma	Allergy, general
\$-8510	Imidazo(4,5-djpyrano(4,3-bjpyrdine, 1,6,7,9-tetrahydro-2-(3-isoxazolyl)-, phosphate (1:1) [CAS]	151466-23-8	EP 556008		Cognition enhancer	Alzheimer's disease
S-8921	2-Naphthalenecarboxylic acid, 1-(3,4-dimethoxyphenyl)-3-(3-ethyl-1-oxopentyl)-4-hydroxy-6,7,8-trimethoxy-, methyl ester [CAS]	151165-96-7	WO 9308155		Hypolipaemic/Antiatherosclerosis	Hypercholesterolaemia
Sabcomeline Sabeluzole S. Adencevimethionine		159912-53-5 104383-17-7 29908-03-0				
safinamide Salacetamide	(S)-(+)-2-[4-(3- fluorobenzyloxy)benzylamino]propanamid e methansulfonate	133865-89-1	AU 711309		Antiepitc	Epilepsy, general
Salazosulfadimidine sabutamol Salicin Salicyl Alcohol	1,3-Benzenedimethanol.Alpha1-[[(1,1- dimethylethyl)amino]methyl]-4-hydroxy- [CAS]	2315-8-4 18559-94-9 138-52-3 90-01-7	GH .	Formult 451745 powder	Formulation, inhalable, topical, dry powder	Asthma

API Generic Name Salicylamide Salicylamide O-Acetic	API Chemical Name	CAS No. 65-45-2 25395-22-6	Patent Reference	Example of Therapeutic Use	Example of Indication
Acid Salicylanilide Salicylic Acid Salicylsulfuric Acid Salinazid		87-17-2 69-72-7 89-45-2 495-84-1			
salmeterol Salsalate Salverine Samarium 185m	1,3-Benzenedimethanol, 4-hydroxy-Alpha1 III6-(4-phenyfbutoxy)hexyljaninojmethyl}-, (±)- 1-hydroxy-2-naphthakenecarboxylate [CAS]	89365-50-4 94749-08-3 552-94-3 6376-26-7 154427-83-5	WO 9006775	Antiasthma	Asthma
Lexidronam sampatrilat Sancycline Saperconazole	L-Tyrosine, N2-(methylsulfonyl)-L-lysyl-1- ((2S)-3-amino-2- carboxypropyl[cyclopentanecarbonyl- (CAS)	129981-36-8 808-26-4 110588-57-3	EP 358398	Anthypertensive, renin system	Hypertension, general
saproptarin	4(1H)-Pteridinone, 2-amino-6-(1,2-dihydroxypropyl)-5,6,7,8-tetrahydro-,dihydrochloride, [6R-[6R"(1R",2S")]]-[CAS]	69056-38-8 62989- 33-7	EP 191335	Antidepressant	НурегрнепуlаІапіпаетіа
saquinavir Saralasin	Butanediamide, N1-[3-[3-[[(1,1-dimethylethyl)amino]carbonyljoctahydro-2(1H)-isoquinolinylj-2-tydroxy-1-(phenylmethyl)propylj-2-[(2-quinolinylcarbonyl)amino}-, [3S-[2[1R"(R"),2S"],3Alpha,486,8816]- [CAS]	127779-20-8 34273-10-4	EP 432695	Antiviral, anti-HIV	Infection, HIV/AIDS

API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
saredulant	Benzamide, N-f4-[4-(acetylamino)-4- phenyl-1-piperidinyl]-2-(3,4- dichlorophenyl)butyl]-N-mettyl-, (S)- [CAS] 142001-63-6			474561	Antiasthma	Asthma
sarizotan	3-Pyridinemethanamine, N-((3,4-dihydro- 2H-1-benzopyran-2-yl)methyl)-5-(4- fluorophenyl)- [CAS]	177975-08-5			Antiparkinsonian	Parkinson's disease
sarpogrelate	Butanedioic acid, mono[2-(dimethylamino)- 1-[[2-{2-{3- methoxypheny)ethyljphenoxyjmethyljethyl] ester [CAS]	125926-17-2	<u>e</u>	398326	Antithrombotic	
Satignel	Platinum, bis(acetato-O)amminedichloro(cyclohexanamine)-	111753-73-2			,	Control of the contro
sarapiaun Satumomab		7		1707	Alucaites, any faulty	
SB-237376	N-(3-12-(3,4- dimethoxyphenyl)ethyljaminojpropylj-4- nitrobenzamide, HCi				Antiamtythmic	Fibrillation, atrial
SB-238039	(5(-2-phenylamino-4-pyrimidinyl)-4-)(4- fluorophenyl)-1-(4-piperidinyl)imidazole				Anticancer, other	Cancer, general
SB-277011	trans-N-[4-[2-(6-Cyano-1,2,3,4-tetrahydroisoquinolin-2-yl)ethyl]cyclohexyl]-4-quinolinecarboxamide				Neuroleptic	Schizophrenia
Scarlet Red		85-83-6				
SCH-00013	Benzonitrie, 4-[2-[3,6-dihydro-4-(1,4,5,6-tetrahydro-6-oxo-3-pyridazinyl)-1(2H)-pyridazinyl)-1(2H)-[CAS] (2-[10,11-Dihydro-5-ethoxy-5H-dibenzo [a,d] cydohepten-S-ylj-N, N-dimethyl-phanamine	217963-18-3	<u> </u>	618204	Cardiostimulant	Heart failure
Sch-23863					Immunosuppressant	Inflammation, general

API Generic Name	API Chemical Name 1-Piperazineacetonitrile, 4-cyclohexyl-	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
Sch-57790		221660-80-6			Cognition enhancer	Alzheimer's disease
Sch-63390	7H-Pyrazoło[4,3-e][1,2,4]triazoło[1,5- c]pyrimidin-S-amine, 2-(2-furanyl)-7-(3- phenylpropyl)- [CAS]	174648-45-4			Antiparkinsonian	Parkinson's disease
Scillarenin		465-22-5				
Scopolamine		51-34-3				
Scopolamine N-Oxide		97-75-6				
	Benzeneacetic acid, Alpha- (hydroxymethyl)-, 9-methyl-3-oxa-9-					
scopolamine	(1Apha,28,48,5Apha,78)]- [CAS]	51-34-3	S	4262003	Formulation, transdermal, other	Nausea and vomiting, general
SCS technology			ജ	6046188	Antiasthma	Unspecified
secalciferol	9,10-Secocholesta-5,7,10(19)-triene- 3,24,25-triol, (38,52,7E,24R)- [CAS]	55721-11-4	G.	301167	Osteoporosis treatment	Osteodystrophy
secnidazole	1H-Imidazolo-1-ethanol, Alpha, 2-dimethyl- 5-nitro- [CAS]	3366-95-8	Æ	M3270	Protozoacide	Infection, trichomoniasis
Secobarbital		309-43-3				
selegiline	Benzeneethanamine, N.Apha-dimethyr-N- 2-propynyl-, (R)- [CAS]	14611-51-9	eg QB	1153578	Antiparkinsonian	
Selenomethionine		1464-42-2				
Sematilide		101526-83-4				
Semotiadil		1164/6-13-2				
	1,3-Cycohexanediol, 5-((1-(6-ethyl-6-hydroxy-1-methyl-2,4-octadienyl)octahydro- 7a-methyl-4H-inden-4-yiidene)ethylidene}- 4-methylene- (1R-					
seocalcitol	(1Apha(1R*,2E,4E),3a0,4E(1R*,3S*,5Z),7 aApha))- [CAS]	134404-52-7	ş	9100855	Anticancer, other	Cancer, liver
Sepimostat		103926-64-3				
seratrodast	Benzeneheptanoic acd, zeta-(z,4,5- trimethyl-3,6-dioxo-1,4-cyclohexadien-1-yl)-103187-07-1 , (+/-)-[CAS]	103187-07-1 112665-43-7	G)	232089	Antiasthma	Asthma

API Generic Name API			1	_		
			Patent Poforo		Example of Theranautic Use	Example of Indication
	API Chemical Name 1H-Imidazole, 1-[2-(7-chlorobenzo[b]thien-	CAS NO.				
sertaconazole (CAS)	ethoxyj-2-(2,4-akanorophenyr)euryr-	99592-32-2	<u> </u>	151477	Antifungal	Infection, dermatological
2-imi fluoro sertindole piper	-{2-{4-{5-chloro-1-{4-i ol-3-y }-1- AS]	9	81	392959	Neuroleptic	Schizophrenia
1-Na dichi dichi sertraline meth	1-Naphthalenamine, 4-(3,4- dichlorophenyl)-1,2,3,4-tetrahydro-N- methyl-, (1S-cis)- [CAS]	79559-97-0 79617-96-2 79617-97-3 64294-95-7	E P	30081	Antidepressant	Depression, general
	ven-1-amine polymer with smethyl)oxirane, hydrochloride	152751-57-0 52757-95-6	Sn	5496545	Urological	Renal failure
Prop sevoflurane		28523-86-6	ם	1954268	Anaesthetic, inhalation	Anaesthesia
2H-1 dihyo SG-210 benz	od 3,4-	143162-65-6			Symptomatic antidiabetic	Neuropathy, diabetic
Cycle chlor sibutramine meth	Cyclobutanemethanamine, 1-(4- chlorophenyl)-N,N-dimethyl-Alpha-(2- methylpropyl)- [CAS]	106650-56-0 84485-00-7	8	2098602	Anorectic/Antiobesity	Obesity
(4aAtj (4aAtj ha))-1 4,66 siccanin benzo	ha,6aApha,11bApha,13aR°,13bAp ,2,3,4,4a,5,6a,11b,13b-decahydro- ,9-tetramethyl-13H- (affurol2,3,4-mnjvanthen-11-ol	22733-60-4	<u> </u>	37003548	Antifungal	
Pipe oxo-oxo-5-yl) hyddi sildenafil (CAS	Piperazine, 1-((3-(4,7-dihydro-1-methyl-7-oxo-3-propyl-1H-pyrazolo(4,3-d)pyrimidin-5-yl)-4-ethoxyphenyl)sulfonyl)-4-methyl, 2-hydroxy-1,2,3-propanetricarboxylate-(1:1)[CAS]	171599-83-0 139755-83-2	WO	9428902	Male sexual dysfunction	тројепое
1H-1 (3-h) triffu silodosin 1- [C	1H-Indole-7-carboxamide, 2,3-dihydro-1- (3-hydroxypropyl)-5-{(2R)-2-{[2-{2-2-2-7]}}} trifluoroethoxy)phenoxyjethyljamino]propyl - {CAS}	160970-54-7 128-00-7	gi Gi	600675	Urological	Dysuria

API Generic Name	API Chemical Name	CAS No.	Patent Reference	ence	Example of Therapeutic Use	Example of Indication
silver sulfadiazine	N"-2-pyrimidinylsulfanilamide monosilver salt	22199-08-2 68-35-9			Anti-infective, other	Infection, general
Simetride		154-82-5				
Simfibrate		14929-11-4				
simvastatin Sincalide	Butanoic acid, 2.2-dimethyl-, 1,2,3,7,8,8a-hexahydro-3,7-dimethyl-8-{2-(tetrahydro-4-hydroxy-6-oxo-2H-pyran-2-yl)ethyl]-1-naphthalenyl ester, [1S-[1Apha,3Apha,78,88(2S*,4S*),8aß]]-[CAS]	79902-63-9 (25126-32-3	S Y	444784	Hypolipaemic/Antiatheroscierosis	Hyperlipidaemia, general
Sigomicin		32385-11-8				
	3-Quinolinecarboxylic acid, 7-(7-amino-5-azaspiro[2-4]hept-5-yl)-8-chloro-6-fluoro-1-(2-fluorocyctopropyl)-1,4-dihydro-4-oxo-,					
sitafloxacin	[1R-[1Apha(S"), 2Apha]]-, hydrate	ç	<u>e,</u>	341493	Quinolone antibacterial	Infection, general
sitamaquine	1,6-Hexanediamine, N,N-diethyr-N~(6- methoxy-4-methyl-8-quinolinyl)- [CAS]	5380-29-0 57695-04-2	:		Protozoacide	Infection, leishmaniasis
	N-(4-Chloro-3-methyl-5-isoxazotyl)-2-[[4,5- (methylenedioxy)-o-toty]acetylf-3- thiophenesulfonamide				-	
sitaxsentan		184036-34-8	<u></u> 3	2464805	Antinypertensive, otner	nyperension, purnonary
sivelestat	Gycine, N-[2-II]4-(2,2-dimethyr-1- oxopropoxy)phenyi[sulfonyi]amino]benzoyi]- [CAS]	127373-66-4	91 (7)	347168	Respiratory	Systemic inflammatory response syndrome
SJA-6017	Butanamide, 2-[[(4- fluorophenyf)sulfonyfjamino]-N-[(1S)-1- formyt-3-methyfbutyl.)-3-methyt-, (2S)- [CAS]	190274-53-4		771565	Ophthaimological	Cataract
SL-65-1498	6-Fluoro-9-methył-2-phenył-4-pyrrolidin-1- ykarbonyl)-2,9-dihydro-1H-pyrido[3,4- bjindole-1-one		8	92020	Anxiolytic	Anxiety, general

API Generic Name	onyl)-4'-	CAS No.	Patent Reference	Example of Therapeutic Use	Example of Indication
SLV-306	phenyl-butyl-Jcyctopentan-1- carbonylaminol-2,3,4,5-tetra-hydro-2-oxo- 1H-benzapin-1-acetic acid			Anthypertensive, diuretic	Hypertension, general
SLV-308		269718-83-4		Antiparkinsonian	Parkinson's disease
Sm 153 lexidronam	Samarate(5-)-153Sm, (((1,2-etharredythis(nitritobis(methylene)))tetraki s(phosphonato))(8-)- N.N.OP,OP,OP")-, pentasodium, (OC-6-21)- [CAS]	16036 9. 78-8		Analgesic, other	Pain, cancer
S-Methylmethionine	N./Aminoiminomethwl\-11-chloro-5.6.7.8-	4727-40-6			
	tetrahydro-8-oxo-4H-pyrroto(3.2.1- ktjj 1)benzazocine-2-carboxamide monomethanesulfonate monohydrate			Antiamiral	Andina, deneral
SMP-300					
	(4S)-4,7,11-triethyl-3,4,12,14-tetrahydro-4,10-dihydroxy-3,14-dioxo-1H- pyrano[3',4':6,7]indolizino[1,2-b]quindin-9- yl		•		
SN-38		100286-90-6		Formulation, optimized, liposomes	Cancer, colorectal
	((+)-methyl (4S)-3-[[(3-(4-[3- (acetylamino)phenyl]-1- piperidinylpropyl)amino] carbonyl]-4-(3,4- diflucrophenyl)-6-(methoxymethyl)-2-oxo- 1,2,3,4-tetrahydro-5-pyrimidinecarboxylate hydrochloride)				
SNAP-7941	· ·			Anxiolytic	Anxiety, general
SOA-132	2-Naphthalenecarboxamide, N-{2-{4- (diphenytmethoxy)-1-piperidinyl]ethyl}-3- hydroxy-5-{3-pyridinylmethoxy)- [CAS]	143964-80-1		Formulation, inhalable, topical	Asthma

API Generic Name	me tetryt-L-vatyt-N-[2- oxy-2-metryt-3-oxo- tojpropyi]-1- ytpropyi]-4-oxobutyi]-	CAS No.	Patent Reference	t ence	Example of Therapeutic Use	Example of Indication
soblidatin Sobrerol	N-methyl-, [2S- [1[1R*(R*),2S*],2R*(1S*,2S*)]]- [CAS]	149606-27-9 498-71-5	6 0 _M	9303054	Anticancer, other	Cancer, lung, non-small cell
sobuzoxane Sodium Arsanilate Sodium Arsphenamine	Carbonic acid, 1,2-ethanediylbis((2,6-dioxo- 4,1-piperazinediylymethylene]bis(2- methylpropyl) ester [CAS]	98631-95-9 127-85-5 1936-28-3	<u>а</u>	140327	Anticancer, other	Cancer, lymphoma, T-cell
Sodium Chloride Sodium Dibunate Sodium Folate Sodium Formaldehydesulfoxylat e Sodium Gycerophosphate		14992-59-7 6484-89-5 149-44-0 1334-74-3				
Sodium Hyaluronate Sodium Iodomethamate		519-26-6				
Sodium Nitrite Sodium Nitroprusside sodium oxybate Sodium Phenoksutfonate	Butyric acid, 4-hydroxy monosodium salt [CAS]	7632-00-0 14402-89-2 502-85-2 1300-51-2			Psychostimulant	Narcolepsy
sodium phenylbutyrate	Butyric acid, 4-phenyl-, sodium salt- [CAS] 1716-12-7	1716-12-7			Formulation, other	Hyperammonaemia

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API Generic Name		CAS No.	Zet	Reference ⊹	Example of Therapeutic Use	Example of Indication
	monohydrate + sodium phosphate dibasic	•	9			to the state of th
sodium phosphate	anhydrous		3	0102404	romulation, oral, outer	Suigery aujunct
	38-hydroxy-5-androsten-17-one(sodium		ů	380036	Formulation mucosal tonical	Labour induction
Socium prasterone sunate	Schale Children		<u></u>	}		
Sodium Propionate		137-40-6				
	cid, 2-hydroxy-, monosodium					1000
sodium salicylate	sait [CAS]	54-21-7			Formulation, oral, solubility-enhanced	rain, general
Sodium Tetradecyl		139-88-8				
Sulfate						
	Acetic acid, [5-f(3-methyl-2-butenyl)oxyl-2-	•				
				·		
sofalcone	enoxy]-[CAS]	64506-49-6	8	1523241	Antiulœr	
Solasulfone	ť	133-65-3				
	Butanedioic acid compd with (1S)-(3R)-1-					
	azabicyclo(2.2.2)oct-3-yl 3,4-dihydro-1-					
	-2(1H)-isoquinolinecarboxytate (1:1)					
solifenacin		242478-38-2			Urological	Overactive bladder
	itol, hexa-3-pyridinecarboxylate				•	
Sorbinicate		6184-06-1	띪	883352	Hypolipaemic/Antiatherosclerosis	
Sorbitol		50-70-4				
Sortvudine		77181-69-2				
	Methanesulfonamide, N-14-11-hydroxy-2-	3930-20-9				
sotatol	76	959-24-0			Antiarrhythmic	
Soterenol		13642-52-9				
Sozoiodolic Acid		554-71-2				
spaglumic acid	L-Glutamic acid, N-(N-acetyl-L-Alpha- aspartyl)- [CAS]	3106-85-2 80619-64-3			Formulation, mucosal, topical	Conjunctivitis
	3-Quinolinecarboxylic acid, 5-amino-1- cyclogropyl-7-(3.5-dimethyl-1-piperazinyl-					Infection, respiratory tract.
sparfloxacin		110871-86-8	<u>a</u>	221463	Quinolone antibacterial	general
Sparteine		90-39-1				
			l			

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API Generic Name	API Chemical Name Candicin D, 18-decarboxy-40-demethyl- 3.7-dideoxo-N3'-((dimethylamino)acetyl)- 18-((12)	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
	famino)ethyl)amino)carbonyl)-3,7- y-N47-methyl-5-oxo cyclic 15,19- tal, comp with L-ascorbic acid					
SPA-S-843	(1:2) [CAS]	202748-83-2	3	5298495	Antitungal	Infection, fungal, general
organical control	1)-Pyrimidinone, 4-amino-1-(2- roxymethyl)-1,3-oxathiolan-4-yl- (2R-					
SPD-754	1	160707-69-7	೪	6228860	Antiviral, anti-HIV	Infection, HIV/AIDS
Spectinomycin		1695-77-8		•		
SP-339	4-{3-(4-0xxx-4,5,6,7-tetrahydroindol- yf)propionylaminojbenzoic acid ethyl ester				Cognition enhancer	Alzheimer's disease
Spiperone		749-02-0				
	1,4-Dithia-7-azaspiro[4.4]nonane-8-carboxylic acid, 7-[2-[[1-(ethoxycarbonyl)-3-pheminmmallaminoL1-axonomyl. 18S.					
spirapril	[7[R*(R*)], 8R*]]- [CAS]	83647-97-6	<u>a,</u>	20800	Antihypertensive, renin system	Hypertension, general
Spirogermanium	. :	41992-23-8	•			
spironoladone	Pregn-4-ene-21-carboxysic acid, 7- (acetyfthio)-17-hydroxy-3-oxo-,Gamma- lactore,(7Alpha,17Alpha)- [CAS]	52-01-7	8	124147	Formulation, dermal, topical	Acne .
SR-121463	Benzamide, N-(1.1-dimethylethyl)-4-[[cis-5-] ethoxy-4-[2-(4-morpholinyl)ethoxyl-2- oxospiro[cyclohexane-1,3-[3H]indol]- 1'(2'H)-yi]sulfonyl-3-methoxy- [CAS]	185913-78-4	0X	WO 971556	Cardiostimulant	Heart failure
SR-144190	Morpholine, 4-benzoyl-2-(3,4- difluorophenyl)-2-[2-(4- [[(dimethylamino)carbonyl]amino]-4-phenyl- 1-pipendinyljethyl]-, (2R)- [CAS]	201152-86-5	WO S	WO 9623787	Anxiolytic	Anxiety, general

API Generic Name	API Chemical Name i H-Indoie-1-acetic acid, 2-III4-(4-chloro- 2,5-dimethovyohenyl)-5-(2-	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
SR-146131	cyclohexylethyl)-2- thiazolyljamino]carbonyl]-5,7-dimethyl- [CAS]	221671-61-0	Ş	9915525	Anorectic/Antiobesity	Obesity
30110	N-{1-{2-(diethylamino}ethylamino}-7- methoxy-9-oxo-9H-thioxanthen-4- ylmethyljformamide				Anticancer, alkylating	Cancer, general
SR-27897	1H-Indole-1-acetic acid, 2-III4-(2- chtorophenyl)-2-thiazolyljamino]carbonyl- [CAS]	136381-85-6	£	432040		Cancer, pancreatic
SR-31747	Cyclohexanamine, N-(3-(3-chloro-4- cyclohexylphenyl)-2-propenyl)-N-ethyl-, hydrochloride, (Z)- [CAS]	132173-07-0	ឩ	376850	Anticancer, other	Cancer, myeloma
SR-58611	Acetic acid, [[(7S)-7-[[(2R)-2-(3-chlorophenyl)-2-hydroxyethyl]amino}-5,6,7,8-tetrahydro-2-naphthalenyl]oxy}-, ethyl ester, hydrochloride [CAS]	121524-09-2	<u> </u>	303546	Gi inflammatory/bowel disorders	Irritable bowel syndrome
SS732			ရှ	5385900	Formulation, mucosal, topical	Infection, ocular
	(R)-(-)-2-(2,4-diffuorophenyl)-1- (ethylsulfonyl)-1,1-diffuoro-3-(1H-1,2,4- triazol-1-yl)-2-propanol		<u> </u>	6083968	Antifuncal	Infection, fungal, general
Set 30	Propanamide, N, N'(dithiodi-2,1- ethanediy()bis(3-amino)- [CAS]	646-08-2			Anticancer, immunological	Cancer, myeloma
	(2S,4R)-1-{5-chloro-1-{(2,4-dimethoxyphenyl)sulfonylf-3-{2-methoxy-phenyl}-2-oxo-2,3-dihydro-1H-indol-3-ylf-4-hydroxy-N,N-dimethyl-2-pymolidine					
SSR-149415			§	0155130	Antidepressant	Depression, general
SSR-180575	2-(7-chloro-5-methyl-4-oxo-3-phenyl-4,5- dihydro-3H-pyndazino[4,5-6]indol-1-yl)- N,N-dimethylacetamide				Neuroprotective	Unspecified

API Generic Name	Chemical Name xx)-8-benzoyl-N-[[(2S)-7-chloro-2,3-dro-1,4-benzodioxin-2-yljmethyl]-8- xicyclo[3.2.1]octane-3-methanamine	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
SSR-181507	2		S	6221879	Neuroleptic	Schizophrenia
SSR-591813	(5aS,8S,10aR)-5a,6,9,10-tetrahydro, 7H,11H-8,10a- methanopyrido[2',3:5,6]pyrano[2,3- djazepine				Dependence treatment	Addiction, nicotine
SST-101	D-Glucitol, 1,4:3,6-dianthydro-, dinitrate [CAS]	87-33-2			Formulation, transdermal, other	Angina, general
SSY-726	(-)-(R)-3-Methyk-3-(methylsulfornyl)-1-(1,2,4 triazol-1-yl)-2-(4-(trifluoromethyl)phenyl]-2-butanol		S S	5147886	Antifungal	Infection, fungal, general
ST-200	1-Propanaminium, 2-(acetyloxy)-3-carboxy- N,N,N-trimethyl-, chloride, (R)- [CAS]	5080-50-2	90 S	3015635	Cognition enhancer Antiviral other	Dementia, senile, general Infection, influenza virus
Stallimycin Stampidine		636-47-5	S	6350736	>	Infection, HIV/AIDS
Stannous Pyrophosobate		15578-26-4				
	(OC-6-13)-Dihydrogen dichloro[7,12-diethyl-3,8,13,17-tetramethyl-21H,23H-porphine-2,18-dipropanoato(4-)-N2,N23,N23,N24)stannate(2-)	106344.20.1			Hanathormtochiva	Hynorhilinhinaemia
Stanolone		521-18-6				
Stanozolol		10418-03-8 (2'H form); 302-96-5 (1'H				
Staph aureus ther STAT4 inhibitors		(ELIQ	S ON	6376652 9629341	Genomics-based drug discovery Immunosuppressant	Infection, MRSA Unspecified

			Patent Pefere	Patent	Evample of Theraneutic lise	Example of Indication
API Genenc Name				2		
stavudine	Thymidine, 2',3'-didehydro-3'-deoxy- [CAS] 3056-17-5		G	501511	Antiviral, anti-HIV	Infection, HIV/AIDS
Stenbolone		5197-58-0				
clooronia	Glycine, N-{1-oxo-2-{(2-thienvicarbon/lthiolpropy/l- [CAS]	72324-18-6	<u>~</u>	4242354	Antitussive	Cough
Sapromia		1				
Stibocaptate		1-07-0377				
Stibophen	. 4	15489-16-4				
Stilbamidine		122-06-5				
stiripentol	1-rennen-3-0, 1-(1,3-benzodioxor-3-y)/-4,4-dimethyl- [CAS]	49763-96-4			Antiepileptic	Epilepsy, general
Streptodomase		37340-82-2				
Streptomycin		57-92-1				
Streptonicozid		5667-71-0				•
Streptonigrin		3930-19-6				
Streptozocin	:	18883-66-4				
	3-Thiopheneacetic acid, 5- This/carboxymethyllaminol-2-carboxy-4-					
strontium ranelate	cyano-, strontium saft (1:2)- [CAS]	135459-87-9	<u>a</u>	415850	Osteoporosis treatment	Ostaoporosis
strontium-89 chlonde	Strontium chloride (89SrCl2) [CAS]	38270-90-5			Analgesic, other	Pain, cancer
Succimer		304-55-2				
Succinimide		123-56-8	,			
Succinylcholine		55-94-7				
Succinylcholine		71-27-2				
Succinylsulfathiazole		116-43-8				•
Succisulfone		5934-14-5				
Suciofenide		30279-49-3				
	Aluminium, hexadeca-p- hydroxytetracosahydroxy(µ8-(1,3,4,6-tetra- O-sufto-S-D-fructofuranosyk-Alpha-D-	· · · · · · · · · · · · · · · · · · ·				
sucraffate	glucopyranoside tetrakis(hydrogen suffato)(8-)))hexadeca- [CAS]	54182-58-0	9	58208233	Antiuloer, Formulation, oral, other	Ulœr, general
sufentanil	Propanamide, N-[4-(methoxymethyl)-1-[2- (2-thienyl)ethyl]-4-piperidinyl]-N-phenyl- [CAS]	56030-54-7	8	3998834	Analgesic, other, formulation implant	Pain, general
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API Generic Name	API Chemical Name 4-Thia-1-azabicyclo[3.2.0]heptane-2-	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
sulbactam	carboxylic acd, 3,3-dimemyr-/-oxo-, 4,4- dioxide, (2S-cis)- [CAS]	68373-14-8				Infection, general
sulbactam + ampicillin		117060-71-6	മ	4234579	Antibiotic, other	Infection, general
eufbonirillin	4-Thia-1-azabicyclo[3.2.0]heptane-2- carboxylic acid, 3,3-dimethyl-7-oxo-6- [(phenysulfoacetyl)amino]-, [2S- [2Alpha 5Alpha 68(S*)]1- (CAS)	28002-18-8 41744-40-5	99	1289358	Penicilin injectable	Infection, pseudomonal
Sulbentine		350-12-9				•
sulbutiamine	łaminojethylidenej :ASj	3286-46-2 67-16-3			Neurological	Unspecified
	fH-Imidazole, 1-{2-[[(4- chlorophenyl)methyl[thio]-2-{2,4- dishbookhonylothyl (4/) (CAS)	61318-90-9	ŭ	ANEGES	Antiferroral	Infantion frames
Sulpeomah		167747-19-5	3			
Sulfabenzamide		127-71-9				
Sulfacetamide		144-80-9				
Sulfachlorpyridazine		80-32-0				
Sulfachrysoidine		485-41-6				
Sulfacytine		17784-12-2				
Sulfadiazine		68-35-9			-	٠
Sulfadicramide	ı	115-68-4				
Suffadimethoxine		122-11-2				
Sulfadoxine		2447-57-6				
Surraeundore		57-67-0				•
Suffacuanole		27031-08-9				
Sulfalene		152-47-6				
Sulfaloxic Acid		14376-16-0				
Sulfamerazine		127-79-7				
Sulfameter		651-06-9				
Sulfamethazine		57-68-1				

ADI Generic Name			Patent		
-	API Chemical Name	CAS No. 144-82-1	Keference	Example of Inerapeutic Use	Example of Indication
Sulfamethomidine		3772-76-7			
Sulfamethoxazole		723-46-6			
Sunametrioxypynuazine		200			
Sulfametrole		32909-92-5			
Sulfamidochrysoidine		103-12-8			
Sulfanilamida		63-74-1			
Sulfanilic Acid		121-57-3			
Sulfanilylurea		547-44-4			
Sulfaperine		599-88-2			
Sulfaphenazole	-	526-08-9 116-42-7			
Sulfapvrazine	٠	116-44-9			•••
Sulfapyridine		144-83-2			
Sulfarside		1134-98-1			
Sulfarsphenamine	-	618-82-6			
	Benzoic acid, 2-hydroxy-5-[[4-[(2-				
sulfasalazine	pyridinylamino)sulfonyljphenyljazoj- [CAS] 599-79-1	599-79-1		Formulation, oral, enteric-coated	Arthritis, meumatoid
Sulfasomizole		632-00-8			
Sulfasymazine		1984-94-7			
Suramiazole		515.40.1			,
Sulfinatol		66264-77-5			
Sulfinpyrazone		57-96-5			
Sulfiram		95-05-6			
Suffisomidine		515-64-0			
Suffsoxazole		127-69-5			
Suffonethylmethane		76-20-0			

			Patent	Ħ		
API Generic Name	API Chemical Name	CAS No. 3691-81-4	Refe	Reference	Example of Therapeutic Use	Example of Indication
Sulformethane		115-24-2				
Sulforidazine		14759-06-9				
Sulfoxone	3	144-75-2			4 - Alice - 24	
	cis-5-fluoro-2-methyl-1-((p-methylsuffnyl)benzylidenejindene-3-acetic					
sulindac	acid	38194-50-2	೫	3725548	Anti-inflammatory	Inflammation, general
Sulisatin		54935-03-4				
Sulisobenzone		4065-45-6				
Sulmarin		29334-07-4				
Sulmazole		73384-60-8				
Suloctidii	•	54063-56-8				
Sulphan Blue	•	129-17-9				
sutpirde	Benzamide, 5-(aminosulfonyl)-N-{(1-ethyl-2-pyrrolidinyl)methyl]-2-methoxy-{CAS]	15676-16-1			Aimentary/Metabolic, other	
	5-Heptanamide, 7-{3-hydroxy-2-{3-hydroxy-4-phenoxy-1-butanyl}-5-oxocyclopentyl}-N- (methylsulfonyl)-, [1R-				:	
suprostone	[1Apha(Z),2ß(1E,3R"),3Apha]]- [CAS]	60325-46-4	3	4024179	Prostaglandin	Abortion
	4-This-1-azabicydd(3.2.0)heptane-2-carboxylic acid, 6-((aminophenylacetyl)amino)-3.3-dimethyl-7-oxo-, (((3,3-dimethyl-7-oxo-4-thia-1-azabicydd(3.2.0)hept-2-				,	
	yikanbonyibayineniyi ester, S. Shubade. (25-					
suttamicilin	(2.aipha.(2R*,5S*),5,aipha,,6.beta.(S*))}- [CAS]	117060-71-6 76497-13-7	89	2044255	Penicilin, oral	Infection, general
Sutthiame		61-56-3				
	Benzamide, N-{(1-ethyl-2- pyrrolidinyl)methyl]-5-(ethylsulfonyl)-2-		· · · · · · · · · · · · · · · · · · ·			
suttopride	methoxy-{CAS]	53583-79-2	Æ	M5916	Neuroleptic	Psychosis, general
Suttosilic Acid		57775-26-5				

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API Generic Name	5,6	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
sumanirole	dihydro-5-(methylamino)-, (5R)-, (2Z)-2-butenedioate (1:1) [CAS]	179386-44-8	No.	WO 9514020	Antiparkinsonian	Parkinson's disease
sumatriptan	1H-Indote-5-methanesutfonamide, 3-{2- (dimethylamino)ethyl-N-methyl-, butanedioate (1:1)- [CAS]	103628-46-2 103628-48-4	6 1	147107	Antimigraine	Migraine
SUN-N8075	1-(4-amino-2,3,5-trimethylphenoxy)-3-(4-[4- (4-fluorobenzyl)phenylpiperazin-1- ylpropan-2(s)-ol dimethanesulfonate				Neuroprotective	Infarction, cerebral
suplatast	Sutfonium, [3-[[4-(3-ethoxy-2-hydroxypropoxy)phenyl]amino]-3-oxopropyl]dimethyl-, [CAS]	94055-76-2	굨	59167564	Antiasthma	Asthma
Suprofen Suramin		40828-46-4 129-46-4				
surfactant TA	Beractant [CAS]		Q .	9117766	Lung Surfactant	Respiratory distress syndrome, general
Suricione Suxibuzone		27470-51-5				
SYM-1010	Clubanic acid Amothut. (4R). [CAS]	34127_74.9	S	2830998	Antiepileptic	Epilepsy, general
SYM-2207	4-(Aminophenyl)-1-methyl-5,7- (methylenedioxy)-N-butyl-1,2- dihydrophthalazine-2-carboxamide				Neuroprotective	Ischaemia, cerebral
Symclosene		87-90-1				
Syn-1253	1-cyclopropyl-6-fluoro-8-methoxy-7-{3-{4-methyl-1,2,3-triazol-1-y/lpymolidin-1-y/l-4-oxo-1,4-dihydroquinoline 3-carboxylic acid				Quinolone antibacterial	Infection, peritoneum
Syn-2190	1-Azetidinesulfonic acid, 3-II(2E)-II(1,4-dihydrox)-4-civo-2-pyridinyl)methoxyjiminoj-2-thionylacetyljaminoj-2-methyl-4-oxo, (2S,3S)- [CAS]	214963-75-4	WO	WO 9847895	Antibacterial, other	Infection, general

API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
Syn-2869	3H-1,2,4-Triazol-3-one, 4-(4-(4-(1R,2R)-2-(2,4-difluorophenyl)-2-hydroxy-1-methyl-3-(1H-1,2,4-triazol-1-yl)propyl)-1-piperazinyl)phenyl)-2,4-dihydro-2((4-(iffluoromethoxy)phenyl)methyl)-[CAS]	210562-98-4	<u>e</u>	6153616	Antiungal	Infection, Aspergillus
Synephrine Syrosingopine		94-07-5 84-36-6				
T-1095	1-Propanone, 3-(5-benzofuranyl)-1-(2- hydroxy-&-((6-O-methoxycarbonyl)-ß-D- glucopyranosyl)oxy)-4-methylphenyl- [CAS]	209746-59-8	<u></u>	850948	Antidiabetic	Diabetes, general
	L-Phenytalaninamide, N-acetyl-L- tryptophyl-L-glutaminyl-L-Apha-glutamyl-L- tryptophyl-L-glutaminyl-L-glutaminyl-L- hysyl-L-isoleucyl-L-threonyl-L-alanyl-L- glutaminyl-L-alanyl-L-glutamiyl-L- isoleucyl-L-glutaminyl-L-glutaminyl-L- Apha-glutaminyl-L-glutaminyl-L- asparaginyl-L-tyrsyl-L-Apha-glutamyl- leucyl-L-glutaminyl-L-hysyl-L-leucyl-L-glutamyl-L- scoartyl-L-glutaminyl-L-hysyl-L-eucyl-L-dlpha-					
T-1249		251562-00-2	<u></u>	WO 9959615	Antiviral, anti-HIV	Infection, HIV/AIDS
1-3912	1-cyclopropyl-8-methyl-7-[5-methyl-6- (methylamino)-3-pyridinyl]-4-oxo-1,4- dihydro-3-quinolinecarboxylic acid				Quinolone antibacterial	Infection, dematological
T-588	Alpha-((2-	142935-03-3	<u></u>	565965	Cognition enhancer	Azheimer's disease
T-67 T-82	Benzenesulfonamide, 2,3,4,5,6- pentafluoro-N-(3-fluoro-4-methoxyphenyl)- [CAS]	195533-53-0	S	5190951	Anticancer, other Cognition enhancer	Cancer, liver Alzheimer's disease

API Generic Name	API Chemical Name [2(1H)-Quinolinone, 8-hydroxy-5-{1-hydroxy-2-172-4-methoxonhenvil-1-	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
TA-2005	methylethyljaminojethyll-, monohydrochlorde, [R-{R*,R*)}- [CAS]	137888-11-0	S	4579854	Antiasthma	Asthma
TA-2005	2(1H)-Quinolinone, 8-hydroxy-5-{1-hydroxy 2-[[2-(4-methoxyphenyl)-1- methylethyljaminojethylj-, monohydrochloride, [R-(R*,R*)]- [CAS]		No.	189480	Formulation, inhalable, solution	Asthma
TA-993	1,5-Benzothiazepin-4(5H)-one, 3- (acetyloxy)-5-{2-(dimethylamino)ethyl-2,3- dihydro-8-methyl-2-(4-methylphenyl)-, (2R,3R)-reH(-)-, (2Z)-2-butenedioate [CAS] 122024-98-0	122024-98-0	<u> </u>	01045376	Antithrombotic	Peripheral vascular disease
tabimorelin	(R)-Apha-{(E)-5-Amino-N,5-dimethyl-2- hexenamido}-N-methyl-N-{(R)-Apha- (methykcarbamoyl)phenethyl}-2- napthalenepropionamide	170851-70-4 193079-69-5			Releasing hormones	Growth hormone deficiency
tacalcitol	9,10-Secocholesta-5,7,10(19)-triene- 1,3,24-triol, (1Alpha,38,52,7E,24R)- [CAS] 93129-94-3	57333-96-7 93129-94-3	<u> </u>	129003	Antipsoriasis	Keratosis
tacedinaline	Benzamide, 4-(acetylamino)-N-(2- aminophenyl)- [CAS]	112522-64-2	띰	3613571	Anticancer, other	Cancer, pancreatic
tacrine	9-Acridinamine, 1,2,3,4-tetrahydro- [CAS]	1684-40-8 321-64-2 104087-44-3	<u>.</u>	332147	Cognition enhancer	Alzheimer's disease
	Pyrazino(1'.2:1,6)pyrido(3,4-b)indole1,4-dione, 6-(1,3-benzodioxol-5-yl)-2.3,6,7,12,12a-hexahydro-2-methyl-, (6R-trans) [CAS]	171596-29-5	Sn	6143746	Male sexual dysfunction	impotence
tafenoquine	1,4-Pentanediamine, N4-12,6-dimethoxy 4-methyl-6-[3-(trifluoromethyl)phenoxy]-8-quinolinyl-[CAS]	106635-80-7 106635-81-8 80065-55-0	Sh	4617394		Infection, malaria
tafluposide	(SFN-12-(1.6.7.8-Tetrahydro-2H-indeno-	179067-42-6	§	9612727	Anticancer, other	Cancer, general
TAK-375	[5,4-b]furan-8-yl]propionamide				Hypnotic/Sedative	Insomnia

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API Generic Name	API Chemical Name 2-(e-I[3-[4-(Diphenylmethoxy)- piooridipolimidary1 2-bburidazin-2-vi-2-	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
TAK-427	methylpropionic acid dihydrata				Antipruritic/inflamm, allergic	Eczema, atopic
	(E)-4-(4-[5-Methyl-2-phenyl-1,3-oxazol-4-yl)methoxyjbenzyloxyimino)-4- phenyibutyric acid					
TAK-559,					Antidiabetic	Diabetes, general
Taka-Diastase		9001-19-8				
	7H-1,3-Dioxolo(4,5- hjj2,3jbenzodiazepine,7-acety+5-(4- aminophenyl)-8,9-dihydro-8-methy+,(8R)-					
talampanel	[CAS]	161832-65-1	S	5639751	Antiepileptic	Epilepsy, general
Talampicillin	!	4//4/-30-0				
	N-II(2S,3S)-19-Carboxy-2-(2-carboxy-ethyl)-13-ethyl-2,3-dihydro-3,7,12,17-tatramethyl-8-vinyl porphyrin-20-yl]acetyl-					
talaporfin		220201-34-3			Radio/chemosensitizer	Cancer, lung, general
Talastine		16188-61-7				
Talbutal		115-44-6				
Talinolol		57460-41-0				
talinexole	4H-Thiazolo[4,5-d]azepin-2-amine, 5,6,7,8 101626-70-4 tetrahydro-6-(2-propenyl)- [CAS]	101626-70-4 36085-73-1	씸	3503963	Antiparkinsonian	Schizophrenia
tainetant	4-Quinolinecarboxamide, 3-hydroxy-2- phenyf-N-[(1S)-1-phenydropylj- [CAS]	174636-32-9	ş	9532948	Gl inflammatory/bowel disorders	Irritable bowel syndrome
talniflumate	3-Pyridinecarboxylic acid, 2-[[3- (trifluoromethyl)phenyljamiro]-, 1,3- dihydro-3-oxo-1-isobenzofuranyl ester [CAS]	2-29-86899	8 H	858864	Anb-infammatory	Inflammation, ocular
tatürelin	L-Prolinamide, N-{(hexahydro-1-metryl-2,6 dioxo-4-pyrimidinyl)carbonyl}-L-histidyl-, (S)- [CAS]	103300-74-9	읔	61033197	Neurological	Dyskinesia, general
tamoxífen	Ethanamine, 2-[4-(1,2-diphenyl-1-butenyl)phenoxy]-N,N-dimethyl-, (Z)- [CAS]	10540-29-1	ရှ	4536516	Anticancer, hormonal	

API Generic Name		CAS No.	Patent Refere	J.ce	Example of Therapeutic Use	Example of Indication
tamsulosin	-[[2-(2- o]propyi]-2-	4	£.	34432	Prostate disorders	Benign prostatic hyperplasia
	4,7-Methano-1H-isoindole-1,3(2H)-dione, hexahydro-2-14-[4-(2-pyrimidinyl)-1-					
tandospirone	piperazinyibutyi-, (3eApha,48,78,7aApha}-, 2-hydroxy- 1,2,3-propanetricarboxylate (1:1) [CAS]	112457-95-1 87760-53-0	<u>a</u>	82402	Anxiolytic	Anxiety, general
Tannoform		9010-29-1				
Taprostene	!	108945-35-3				
tariquidar	3-Quinolinecarboxamide, N-{2-[[[4-{2-{3,4-dlhydro-6,7-dlmethoxy-2(1H}-isoquinoliny/)ethy[[phenyl]amino]carbonyl]-4,5-dimethoxyphenyl]-[CAS]	206873-63-4	Q M	9817648	Radio/chemosensitizer	Cancer, lung, non-small cell
	6-[[2-(Dimethyl-amino)ethyljamino]-3- hydroxy-7H-indeno[2,1-c]quinolin-7-one dimethyloride					
TAS-103		174634-09-4	8	WO 9532187	Anticancer, other	Cancer, lung, non-small cell
Tasosartan	•	145733-36-4				
Taurocholic Acid		81-24-3				
Taurolidine		19388-87-5				
tazanolast	Acetic acid, oxoll 3-(117-terrazor-3- yi)phenyljamino}-, butyl ester [CAS]	82989-25-1	S	4778816	Antiasthma	
	3-Pyridinecarboxylic acid, 6-{(3,4-dihydro-4,4-dimethyl-2H-1-benzothiopyran-6-		{			
tazarotene	lyljethymylj-, ethyl ester [CAS]	118292-40-3	<u> </u>	284288	Anipsonasis	SKENS
Tazobactam tazobactam + piperacillin	•	8-10-00 /80	ç	2009000		anen notice
18033744		374680-51-0	<u>,</u>	1 6007700	Sozzougi Antubiouc, outer Cardiovascular	Heart failure
TCH-346	N-Methyl-N-propargyl-10-aminomethyl-dibenzo(b,f)oxepin				Neuroprotective	Amyotrophic lateral sclerosis
tebipenem	5-Hexenoic acid, 4-hydroxy-, polymer with 4-eithenyl-1H-imidazole [CAS]	82200-24-6			Beta-lactam antibiotic	Infection, streptococcal

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API Generic Name		CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
tecadenoson	CAS)	204512-90-3	Ş Ş	WO 9808855	Antiarrhythmic	Tachycardia, supraventricular
	1H-Benzimidazol-2-amine, 1-((4- fluorophenyl)methyl)-N-4-piperidinyl-					,
tecastemizole		75970-99-9	S	4219559	Antiallergic, non-asthma	Rhinitis, allergic, seasonal
Technetium senTc		121281-41-2				•
Bicisate						
Technetium senTc		125224-05-7;				
Mertiatide		104348-91-6				
Technetium senTc		109581-73-9				
Sestamibi		•				
Technetium sanTc		104716-22-5				
Teboroxime						•
Teclothiazide		4267-5-4				
Teclozan		5560-78-1				
	Spirafcyclopentaine-1,9*					
Pedisamil	(3,7 jaiazabicycoj 3,3,1 jihonamej, 3,7 - bis(cyclopropylmethyl)- [CAS]	90961-53-8	<u>u</u>	102833	Antiamythmic	Fibrillation, atrial
Toffuesno		124-72-1				
Tollario	2 4/1H 3H)-Pyrimidinedione, 5-fluoro-1-					
tegafur	(tetrahydro-2-furanyl)- [CAS]	17902-23-7	8	1168391	Anticancer, antimetabolite	Cancer, general
	2,4(1H,3H)-Pyrimidinedione, 5-fluoro-1-					
tegafur + uracil	(wutanyuro-z-juranyir, inter with 2,4(1H,3H)-pyrimidinedione- [CAS]	74578-38-4	<u>a.</u>	224885	Anticancer, antimetabolite	Cancer, breast
	Hydrazinecarboximidamide, 2-((5-methoxy-					•
	1H-indol-3-yl)methylene)-N-pentyl-, (Z)-2-	189188-57-6				
tegaserod	butenedioate [CAS]	145158-71-0			GI inflammatory/bowel disorders	Imitable bowel syndrome
Teicoplanin		61036-64-4				
	G-L-2'-deoxythymidine	2424 09 4			عملاء أستناهم	Infortion honotitie. Buinte
telbivudine		J124-30-4				mechon, nepanal vara
Telenzepine		80880-90-6				

API Generic Name	API Chemical Name	CAS No.	Patent Refere	926	Example of Therapeutic Use	Example of Indication
telithromycin	3-De((2,6-dideoxy-3-C-methyl-3-O-methyl-Apha-L-ribo-hexopyranosyl)oxy)-11,12-dideoxy-6-O-methyl-3-oxo-12,11-(oxycarbonyl((4-(3-pyindinyl)-1H-imidazol-1-yl)butyl)imino))-[CAS]	191114-48-4	6 1	680967	Macrolide antibiotic	Infection, respiratory tract, general
telmesteine	3,4-Thiazolidinedicarboxylic acid, 3-ethyl ester, (R)- [CAS]	122946-43-4			COPD treatment	Bronchitis, chronic
telmisartan	(1,1-Biphenyl)-2-carboxylic acid, 4'-((1,4-dimethyl-2-propyl(2,6-bl-1H-berzimidazol)-1'-yl)methyl)- [CAS]	144701-48-4	<u> </u>	502314	Antihypertensive, renin system	Hypertension, general
telomerase inhibs	,		§:	9941261	Anticancer, other	Cancer, general
temazepam	¥5	846-50-4	ಸ	3197467	Hypnotic/Sedative	Insomnia
temiverine	Benzarieacetic acid, Alpha-cyclohexyl- Alpha-hydroxy-, 4-(diethylamino)-1,1- dimethyk-2-butymy ester, [CAS]	129927-33-9	8	2222828	Urological	Pollakisuria
temocapril	1,4-Thiazapine-4(5H)-acetic acid, 6-[[1- (ethoxycarbonyl)-3- phenyfpropyljaminojtetrahydro-5-oxo-2-(2-110221-44-8 thienyl)-, [2S-[2Apha,6ß(R*7)]- [CAS]		೫	4495188	Antihypertensive, renin system	Hypertension, general
Temocillin		66148-78-5				
temoporfin	Phenol, 3,3',3",2"-(2,3-dihydro-21H,23H- porphine-5,10,15,20-tetrayl)tetrakis- [CAS] 122341-38-2	122341-38-2	a	337601	Radio/chemosensitizer	Cancer, head and neck
temozołomide	<u>-</u>	85622-93-1	범	3231255	Anticancer, alkylating	Cancer, brain, general
tenatoprazole	1H-Imidazo(4,5-b)pyrdine, 5-methoxy-2- (((4-methoxy-3,5-dimethyl-2- pyridinyl)methyl)sulfinyl)- [CAS]	113712-98-4	S	4808596	Antiuloer	Ulcer, gastric
l enecreptase Tenidap		120210-48-2				

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API Generic Name	API Chemical Name	CAS No.	Patent Referer	92	Example of Therapeutic Use	Example of Indication
teniposide	Furo[3',4':6,7]naphtho[2,3-d]-1,3-dioxol-6(5aH)-one, 5,8.8a,9-tetrahydro-5-(4-hydroxy-3,5-dimethoxyphenyl)-9-[[4,6-O-(2-thienydmethylene)-8-D-glucopyranosyljoxy]-1,[5R-[5Apha,5aß,8aAbha,98(R*)]]-[CAS] 29767-20-2		SD	3524844	Anticancer, other	Cancer, lymphoma, non- Hodgkin's
tenofovir	<u>ත</u>	147127-20-6			Antiviral, anti-HIV	Infection, HIV/AIDS
	2,4,6,8-tetraoxa-5-phosphanonanedioic acid, 5-(2-(6-amino-9H-purin-9-yl)-1- methylethoxymethyl) bis(1- methylethyl)estar, 5-oxide (R)-, (E)-2- butenedioate					
tenofovir disoproxil		202138-50-9			Antiviral, anti-HIV	Infection, HIV/AIDS
Tenonitrozole		3810-35-3				
tenoxicam	2H-Thieno(2,3-e)-1,2-thiazine-3- carboxamide, 4-hydroxy-2-methyl-N-2- pyridinyl-, 1,1-dioxide [CAS]		8	1519811	Antiarthritic, other	
Tenuazonic Acid		610-88-8				
enonedea	5,9,13,17-Nonadecatetraen-2-one, 6,10,14,18-tetramethyl- [CAS]	3796-63-2 6809-52-5			Antiulcer	
terazosin	Piperazine, 1-(4-amino-6,7-dimethoxy-2-quinazolinyl)-4-((tetrahydro-2-furanyl)-arbonyll- [CAS]	63074-08-8 63590-64-7 70024-40-7	ള	4112097	Antinypertensive, adrenergic	Hypertension, general
terbinaline	o, N-(6,6- -methyl-, (E)-	78628-80-5 91161-71-6	&	24587	Antifungal	Infection, dermatological
terbutaline	1,3-Benzenediol, 5-{2-{(1,1-dimethylethyl)amino}-1-hydroxyethyl}- [CAS]	23031-25-6			Formulation, mucosal, topical	Dysmenorrhoea
terconazole	Piperazine, 1-[4-[[2-(2,4-dichlorophenyl)-2- (1H-1,2,4-triazol-1-yimethyl)-1,3-dioxolan- 4-yijmethoxyjphenyl]-4-(1-methylethyl)-, cis- [CAS]	67915-31-5	SN	4358449	Antifungal	Vaginitis

API Generic Name	API Chemical Name	CAS No.	ratent Reference	ence	Example of Therapeutic Use	Example of Indication
	Apha-[4-(1,1-					•
terfenadine	(hydroxydiphenylmethyl)- [CAS]	50679-08-8	<u>8</u>	3878217	Antiallergic, non-asthma	
terguride	Urea, N,N-diethyf-N*-{(8Atpha)-6- methylergolin-8-yi]- [CAS]	37686-84-3	<u>유</u>	159522	Antiprolactin	Hyperprolactinaemia
Terlipressin	:	14636-12-5				
Terodiline		15793-40-5				
Terofenamate		29098-15-5			e de la composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della comp	
Terpin		80-53-5	·•			
	2-Propanol, 1-{(3,4-dihydro-2H-1- benzothiopyran-8-yl)oxy}-3-{(1,1-	33580-30-2			•	
tertatoloi	dimetry/etry/)aminoj-, nydrochionde, (+t-)- 63686-84-0 34/84- [CAS]	83688-84-0 34/84 64-0	8	1308191	Antihypertensive, adrenergic	Hypertension, general
tert-Pentyl Alcohol	1	75-85-4				
	(2S)-2-ethoxy-3-{4- 2-{4- [(methy/sulfonyl)oxyjphenyl]ethoxyjphenyl]					
tesagitazar	propariore actu				Antidiabetic	Diabetes, Type II
besmilifene	Ethanamine, N.N-Diethyl-2-(4- (phenylmethyl)phenoxy- [CAS]	92981-78-7			Radio/chemosensitizer	Cancer, breast
Testolactone		968-93-4				
Testosterone	androst 4-en-3-one, 17-hydroxy-,	58-22-0 5949-			Formulation, transdermal,	Hormone replacement
tetrabamate		60763-47-5	2 2 2	2748794		Addiction, alcohol
Tetrabarbital		76-23-3				
Tetrabenazine		58-46-8				
Tetracaine		136-47-0				
Tetrachloroethylene		127-18-4				
tetracine	Berzoec acad, 4-(butyfamino)-, 2- (dimethyfamino)ethyf ester [CAS]	94-24-6			Formulation, transdermal, systemic	Pain, general
	2-Naphthacenecarboxamide, 4- (dimethylamino)-1,4,4e,5,5e,6,11,12a- octahydro-3,6,10,12,12a-pentahydroxy-6- methyl-1 11-ricon-14S.					
tetracycline	(4Apha,4aApha,5aApha,6ß,12aApha)}- [CAS]	60-54-8			Formulation, oral, other	Infection, oral
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API Generic Name Tetrahydrozoline	API Chemical Name	CAS NO. 84-22-0	Kere	Kererence	Example of Therapeure Ose	
Tetrandrine		518-34-3				
Tetrantoin	٠	52094-70-9				
Tetrazepam		103/8-14-3				
Tetrofosmin		127502-06-1				
	2,4-Pyrimidinediamine, 5-[[3,5-dimethoxy-	53808-87-0				
tetroxoprim	4-(2-methoxyethoxy)phenyljmethylj-[CAS]	74515-38-1	ട്ട	3992379	Trimethoprim and analogues	Intection, general
Tevenel®	•	4302-95-8				
tezacitabine	Cytidine, 2'-deoxy-2'-(fluoromethylene)-, (2E)- [CAS]	130306-02-4	ន	5616702	Anticancer, antimetabolite	Cancer, colorectal
	2-tyndinesunonamice, r-(o-(z- hydraxyethoxy)-5-(2-methoxyohenoxy)-2-					
	(2-(1H-tetrazol-5-yl)-4-pyridinyl)-4-				;	
tezosentan	pyrimidinyl)-5-(1-methylethyl)- [CAS]	180384-57-0			Cardiostimulant.	Oedema, general
theirdomide	1H-Isoindole-1,3(2H)-dione, 2-(2,6-dioxo-3-	50-35-1			Dermatological	Infection, dermatological
n tenedative		86.42.4			•	
Inenaldine		#77-DB				
Thenykliamine		91-79-2				
Theobromine		83-67-0				
Theofibrate	- :	54504-70-0				
theochvline	11H-Purne-2, 5-drone, 3,7-dinydro-1,3- dimethyt- [CAS]	5967-84-0			Formulation, modified-release, other	Asthma
Thiabendazole		148-79-8				
Thiacetazone		104-06-3				•
	Carbamic acid, [4-(1-methylethyl)phenyll					
	(3aS,8aS)-3,3a,8,6a-tetranydro-5a,6- dimethyt-2H-thienol2,3-blindol-5-vl ester					
thiacymserine	[CAS]	145209-51-4			Cognition enhancer	Alzheimer's disease
Thiaibarbital		467-36-7				
Thiamine		59-43-8				
Thiamine		154-87-0				
Thiamine		67-16-3				
Thiamiprine		5581-52-2				

API Generic Name	API Chemical Name		Patent Reference	Example of Therapeutic Use	Example of Indication
Thiamphenicol		15318-45-3			
Thiamylai		77-27-0			
Thiazesim		5845-26-1			
Thiazinamium		58-34-4			
Thiazolinobutazone		54749-86-9		·	
Thiazolsulfone		473-30-3			
Thibenzazoline		6028-35-9			
Thiethylperazine		1420-55-9			
Thimerfonate	•	5964-24-9			
Thimerosal		54-64-8			
Thiobarbital		77-32-7			
Thiobutabarbital		2095-57-0			
Thiocarbamizine		91-71-4			
Thiocarbarsone		120-02-5			
Thiocolchicine		2730-71-4			
Thiocresol		26445-03-4			
Thioctic Acid		62-46-4			
Thioglycerol		96-27-5			20 2000
Thioguanine		154-42-7			
	L-Thiotyrosinyl-glycine				
Тлюятев				Anticancer, immunological	Cancer, general
Thiopental		71-73-8			
Thiopropazate		84-06-0			
Thioproperazine	•	316-81-4			•
Thioridazine		50-52-2			
Thiothixene	:	5591-45-7			•
Thiodir	I hiophosphonoromic acid			Antistral anti HN/	Infection MIV/AIDS
		2 00 00			
Thiphenamil		82-99-5			
Thiram		137-26-8			
Thonzylamine		63-56-9			
Thozalinone		655-05-0			
Thromboplastin		8035-58-9			

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API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
Thurryl Nicounate		0.61-07	ရှ	6245750	Anticancer, other	Cancer, colorectal
ulymorodu		80.82.8				
Гиуто		SOEEO EE O				
Thymopentin		09000-00-0				
Thymyl N-		2/8-20-1				
Isoamylcarbamate						
Thyropropic Acid		51-26-3				
Thyroxine		51-48-9				
Tiadenol		6964-20-1				
	3-Piperidinecarboxylic acid, 1-[4,4-bis(3-				;	:
tiagabine	methyl-2-thienyl)-3-butenylj-, (R)- [CAS]		<u>§</u>	8700171	Antiepileptic	Epilepsy, general
Tiamenidine		31428-61-2				
	Heptanoic acid, 7-{(3-chloro-6,11-dihydro-					
tianeptine	6-methydibenzolc,fill,/Jimazepin-11- yf)amino]-, S,S-dioxide [CAS]	/2/9/-41-2 66961- 73-5	89	1269551	Antidepressant	Depression, general
	Benzamide, N-[2-(diethylamino)ethyl)-2-					
tiapride	methoxy-5-(methylsulfonyl)- [CAS]	51012-32-9	සු	1394563	Neuroleptic	
tiaorofenic acid	2-Thiopheneacetic acid, 5-benzoyl-Apha- methyl- [CAS]	33005-95-7	89	1331505	Antiarthritic, other	
Taramide		32527-55-2				
	4-Thiazolecarboxamide, 2-8-D-				:	Cancer, leukaemia, chronic
tiazofurin	nibofuranosyl- [CAS]	60084-10-8	<u> </u>	54432	Anticancer, antimetabolite	myelogenous
Tibezonium		54663-47-7				
	19-Norpregn-5(10)-en-20-yn-3-one, 17- hydroxy-7-methyl-, (7Alpha,17Alpha)-					
tibolone		5630-53-5	<u>а</u>	389035	Menopausal disorders	Hormone replacement therapy
Ticarcillin		34787-01-4				
	Thieno(3,2-c]pyridine, 5-[(2-chlorophenyl)methyl]-4,5,6,7-tetrahydro-	53885-35-1				
tictopidine	[CAS]	55142-85-3	85	1554424	Antithrombotic	
Ticrynafen		40180-04-9				
tiemonium	4-(3-nydroxy-3-prenyr-3-men-z-yr-propyr)- 025z-9z-2 144-1z- 4-methylmorpholinium	7 7			Antispasmodic	

API Generic Name	API Chemical Name 2-Naphthacenecarboxamide, 4.7-	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
	os(onreunyamino)-s-titt 1. r- dimethylethyl)amino)acetyljamino}- 1,4,4a,5,5a,6,11,12a-octahydro- 3.10.12.12a-tetrahydroxy-1,11-dioxo					
ügecycline	(4S,4aS,5aR,12aS)- [CAS]	220620-09-7	<u>a</u>	582829	Tetracycline	Infection, general
Tigemonam		102507-71-1			-	
Tigloidine		495-83-0				
Tilidine		20380-58-9				
Tilisolol		85136-71-6				
timacoxib	Benzenesulfonamide, 4-(4-cyclonexyl-2-methyl-5-oxazolyl)-2-fluoro- [CAS]	180200-68-4	N N	WO 9619463	Alimentary/Metabolic, other	Polyp
tiludronic acid	Phosphonic acid, [[(4- chlorophenyl)thio]methylene]bis- [CAS]	89987-06-4	g.	100718	Osteoporosis treatment	Paget's disease
Tmentin		86482-18-0			Antibiotic, other	Infection, general
tímepidium	Piperidinium, 3-(di-2-thienyimethylene)-5- methoxy-1,1-dimethyl-, [CAS]	35035-05-3	8	1358446	Antispasmodic	
Timiperone		57648-21-2				******
Noni	(-)-1-(t-butylamino)-3-{(4-morpholino-1,2,5-thiadiazol-3-yl)oxy}-2-propanolmaleate	26839-75-8	g	1253709	Antihypertensive, adrenergic,	
Timonacle						
Tin Ethyl Etiopurpurin		113471-15-1				
tinazoline	1H-Indole, 3-{(4,5-dihydro-1H-imidazol-2- yf)thio}- [CAS]		જ	3376311	Vasodilator, peripheral	
Tinidazole		19387-91-8				
Tinoridine		24237-54-5				
Tiocarlide		910-86-1				·
Tioclomarol		22619-35-8				
boconazole	1H-Imidazole, 1-{2-{(2-chloro-3- thienyl)methoxy}-2-{2,4- dichlorophenyl)ethy]-{CAS}	61675-64-7 65899-73-2	S	4062966	Antifungel	Infection, fungal, general
tiopronin	Glycine, N-(2-mercapto-1-oxopropyl)- [CAS]	1953-02-2	S	3246025	Urokogical	Homocystinuria

			Patent			Evample of Indication
API Generic Name	API Chemical Name	CAS No.	Kererence -	agua	Example of Therapeute Ose	באמוויקים כן ווומוסמיים
fiotroolum	3-Oxa-9-azoniatricyclo(3.3.1.02,4)nonane, 7-((hydroxydi-2-thienylacetyl)oxy)-9,9-dimethyr, [CAS]	136310-93-5	97 	418716	COPD treatment	Chronic obstructive pulmonary disease
10		4991-65-5				
Tipepidine		5169-78-8				
	2(1H)-Quinolone, 6-(amino(4- chlorophenyl)(1-methyl-1H-tmidazol-5- yl)methyl)-4-(3-chlorophenyl)-1-methyl [CAS]	192185-68-5 192185-72-1	% 0%	9716443	Anticancer, other	Cancer, breast
tipranavir	N-[3-[1(R)-[4-Hydroxy-2-oxo-6(R)-(2-phenylethyl)-6-propyl-5,6-dihydro-2H-pyran-3-yljpropyljphenyl]-5-(trifluoromethyl)pyridine-2-sutfonamide	174484-41-4	·		Antiviral, anti-HIV	Infection, HIV/AIDS
fouizium	2H-Quinolizinium, 3-(di-2-thienyfmethylene)octahydro-5-methyl-, ICASI	71731-58-3	<u>4</u>	4205074	Antispasmodic	
tirapazamine	1,2,4-Benzotriazin-3-amine, 1,4-dioxide- ICAS]	20028-80-2 27314-97-2 5424-06-6		2204574	Radio/chemosensitizer	Cancer, lung, non-small cell
Tiratricol		51-24-1				
úriazad	iene-3.20-dione, 21-[4- 1-4-pyrimidinyl)-1- hyl-, (16Alpha)-, [CAS]		WO 8	8701706	Neuroprotective	Haemorrhage, subarachnoid
tirofiban	L-Tyrosine, N-(butytsulfonyl)-O-[4-(4- piperidinyl)butylj-, [CAS]	1423/3-60-2 144494-65-5	<u>n</u>	478363	Antithrombotic	Infarction; myocardial
	Benzenepropanamide, Apha- (benzoylamino)-4-{2-(diethylamino)ethoxy}- N,N-dipropyl-, (++)- [CAS]		DE 2	2503992	Antispasmodic	Muscle spasm, general
Iftanium Suffate tixocortol	Pregn-4-ene-3,20-dione, 21-{(2,2-dimethyl- 1-oxopropyl)thio}-11,17-dihydroxy-, (118)- [CAS]	13825-74-0 55560-96-8 61951-99-3	8	1475795	Antiallergic, non-asthma, mucosal, topical	Rhinitis, allergic, general

API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
:	≱ -00					
tizanidine	CAS]	51322-75-9	8	1429926	Muscle relaxant	Spastic paralysis
TLK-199	Glychre, L-Gamma-glutamyl-S- (phenylmethyl)-L-cysteinyl-2-phenyl-, diethyl ester, (2R)- [CAS]	168682-53-9	S S	5679643	Immunostimulant, other	Myelodysplastic syndrome
	Glycine, L-Gamma-glutamyl-3-[[2- ([bis[bis(2- chloroethyl)aminojphosphinyl]oxy)ethyl]sul	158382,37,7	<u>_</u>	5545694	Anticoncer other	Canger ovarian
TNF-3 analogue	וחוואולרים ישווארבי ליוחיוליו (בויל ביים			2035185	Anticancer, immunological	Cancer, general
TNP-470	:	129298-91-5				
TO-186	Pregna-1,4-diena-3,20-dione, 9-fluoro- 118,17,21-trihydroxy-16.betamethyk-, 17- butyrata 21-propionata [CAS]	5534-02-1		•	Antipruritic/inflamm, allergic	
	oxy-Alpha-D- (1,6)-O-(2,6-diamino-2,3,6- O-ribo-hexopyranosyl-(1-4)-					Infection, respiratory tract,
tobramycin	•	32986-56-4			Formulation, inhalable, topical	general
tocainide	Propanamide, Z-amino-N-(Z,5- dimethylphenyl)- [CAS]		US 4	4218477	Antiamythmic	Fibrillation, ventricular
Tocamphyl		5634-42-4				
orizon de la companya	8-Chloroadenosine 3'5'-cyclic phosphate	41941-56-4			Anticancer other	Cancer colorectal
Toonstinate		40516-48-1				
Todralazine		14679-73-3				
Tofenacin		15301-93-6				
	5H-Pyrazolo[3,4-c]-1,2,4-triazolo[4,3-a]pyridine,9-cydopentyl-7-ethyl-6,9-dibunda					
tofimilast		185954-27-2			Antiasthma	Asthma
	5H-2,3-Benzodiazepine, 1-(3,4- dimethoxyphenyl)-5-ethyl-7,8-dimethoxy-4-	22345.47.7	<u>,</u>	1334271	Anvicability	Anview General
Tolazamide						

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			ratent			
API Generic Name	API Chemical Name	CAS No.	Kete P	Kererence	Example of Therapeutic Use	Example of Huicarion
loiazoline		20-20-20		•		
Tolbutamide		7-11-1				
tolcapone	Metranone, (3,4-dinydroxy-5- nitrophenyl)(4-methylphenyl)- [CAS]	134308-13-7	<u> </u>	237929	Antiparkinsonian	Parkinson's disease
			-			
thíciclata	methanonaphthalen-6-vi) ester [CAS]	50838-36-3	8	1364407	Antifungal	Infection, dermatological
Tolevelamida		664-95-9				
	Benzenesulfonic acid, 4-ethenyl-,					
		•				
tolevamer	3.3	28038-50-8			Antibacterial, other	Infection, Clostridium, general
	Benzoic acid, 2-[(3-chloro-2-					
toffenamic acid	methytphenyl)amino]- [CAS]	13710-19-5	는 공	1543295	Anti-inflammatory	Inflammation, general
Tolindate		27877-51-6				
Tollowlot		2933-94-0				
Louidideoi		26474 29 9				
Tolmetin		50111-53-3				
Tolnaftate		2398-96-1				
Tolonidine		4201-22-3				
Tolonium		92-31-9				
	2-Oxazolidinone, 5-(hydroxymethyl)-3-(3-					
toloxatone	methylphenyl)- [CAS]		.	1250538	Antidepressant	
Tolperisone		728-88-1				
Tolpropamine		5632-44-0				
Toirestat		82964-04-3				
	Carbamic acid, (2-methylphenyl)-,		· · · · · · · · · · · · · · · · · · ·			
	(385,68R)-1,2,3,38,0,08416XBIJGIO-1,58,0- trimethylymph/2 2-hlindol.5,3,0 ecter					
tolserine	[CAS]	145209-30-9			Cognition enhancer	Alzheimer's disease
	Priend, 2-(3-(bis(1-methylethyl)amino)-1-					•
tolterodine	phenytpropyl)-4-methyl-, (R)- [CAS]	124937-51-5	ᇜ	325571	Urological	Incontinence
	Benzamide, N-{4-{(7-chloro-2,3,4,5-					
	yl)carbonylj-3-methylphenylj-2-methyl-					
tolvaptan	[CAS]	150683-30-0	EP	450097	Cardiovascular	Heart failure

			Patent			:
API Generic Name Totycaine	API Chemical Name	CAS No. 3686-58-6	Refe i 	Reference	Example of Therapeutic Use	Example of Indication
Topiramate	Beta-D-Fructopyranose, 2,3:4,5-bis-O-(1-methylethylidene)-,	97240-79-4		1		Epilepsy, generalized,
	sulfamate [CAS]		<u></u>	533483	533483 Antieplieptic	tonic-clonic
topoisomerase inhibitors			સ ક	2733880	Anticancer, other	Cancer, general
topotecan	1H-Pyrano(3',4':6,7 jindolizino[1,2-b]quinoline-3,14(4H,12H)-dione, 9-[(dimethylamino)methyl]-4-ethyl-4,10-dihydroxy-, (S)- [CAS]	123948-87-8	<u></u>	321122	Anticancer, other	Cancer, ovarian
torasemide	3-Pyndinesutonamide, N-II(1- methyfethyl)amino]carbonyl]-4-[(3- methylphenyl)amino]- [CAS]	56211-40-6	S)	4018929	Anthypertensive, diuretic	Hypertension, general
	ethyl (2R,4S)-4-[[3,5-bis(trifluoromethyl) berzyl((methoxycarbonyl)amino)-2-ethyl-6- (trifluoromethyl)-3,4-dihydroquinoline-					
torcetrapib		262352-17-0			Hypolipaemic/Antiatherosclerosis	Atherosclerosis
torcitabine	Is-L-2'Deoxycytidine				Antiviral, other	Infection, hepatitis-B virus
toremifene	Ethanamine, 2-{4-(4-chloro-1,2-diphenyl-1-89778-26-7 butenyl)phenoxyJ-N,N-dimethyl-, (2)-(CAS) 89778-27-8		9	95875	Anticancer, hormonal	Cancer, breast
Torsemide		56211-40-6	*,			-
Tositumomab	,	208921-02-2				
tosufloxacin	1,8-Naphthyndine-3-carboxylic acid, 7-(3-amino-1-pyrrolidinyl)-1-(2,4-difluorophenyl)-100490-38-6 6-fluoro-1,4-dihydro-4-oxo-, [CAS]		SU 4	4704459	Quinotone antibacterial	Infection, urinary tract
tramadol	Cyclohexanol, 2-[(dimethylamino)methyl]-1-27203-92-5 (3-methoxyphenyl)-, cis-(+/-)-[CAS] 36282-47-0	27203-92-5 36282-47-0	·····		Analgesic, other	Pain, general
Tramazoline		1082-57-1				649 — 4 ₁₉
randolapri	1H-indole-2-carboxylic acd, 1-{2-{(1- carboxy-3-phenythropyl)aminoj-1- oxopropyljoctahydro-, [2S- [1[R*(R*)],2Alpha,3aAlpha,7aß]j- [CAS]	87679-71-8 87679- 37-6 52-53-9	DE 3	3151690	Anthypertensive, renin system	Hypertension, general

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API Generic Name		CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
ranexamic acid	Cyclohexanecarboxylic acid, 4- (aminomethyl)-, trans- [CAS]	1197-18-8	S	3950405	Antifibrinolytic	Menstrual disorder, general
	Benzoic acid, 2-[[3-(3,4-dimethoxyphenyl)-					
tranilast	1-oxo-2-propenyljamino]- [CAS]	89	S	3940422	Vulnerary	Wound healing
trans-retinoic acid	Retinoic acid [CAS]	302-79-4			Anticancer, other	Cancer, general
Tranylcypromine		155-09-9				
trapidil	[1,2,4]Trazolo[1,5-ajpyrrmdin-7-amine, N,N-diethyl-5-methyl-[CAS]	15421-84-8	8	55956	Vasodilator, coronary	
Trastuzumab		180288-69-1				
	5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-					
	butenyi)cyclopentyi)-, 1-methylethylester					
travoorost	(1R(1Apha(Z),2lk(1E,3R7),3Apha,5Apha) ICASI	157283-68-6			Formulation, mucosal, toolcal	Glaucoma
Traxanox		58712-69-9				
	1-Diperidipenthanol 4-hwdrow-Alpha-(4-					
traxoprodii		134234-12-1 188591-67-5			Analgesic, other	Pain, general
	1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-	40704 02 E			•	
trazodone	[CAS] 25332-39-2		മ	4215104	Antidepressant	
Tremacamra		155576-45-7			•	
Trenbolone		10161-33-8				•
Trengestone		5192-84-7				
treosulfan	1,2,3,4-Butanetetrol, 1,4- dimethanesulfonate, [S-(R*,R*)]- [CAS]	299-75-2	Ş	8401506	Anticancer, alkylating	
trepibutone	Benzenebutanoic acid, 2,4,5-triethoxy- Gamma-oxo- [CAS]	41826-92-0	89	1387733	Antispasmodic	
	Prosta-5,13-dien-1-oic acid, 6,9-epoxy-					
treprostinol	1,13E,15SJ- [CAS]	-7 P	Sn	6054486	Formulation, parenteral, other	Hypertension, pulmonary
tretinoin	Retinoic acid (CAS)	302-79-4			Formulation, dermal, topical	Acne

			Patent		
API Generic Name	API Chemical Name 6,7-Isoquinolinediol, 1,2,3,4-tetrahydro-1-	CAS No. 18559-59-6	Reference	Example of Therapeutic Use	Example of Indication
betoquinol	[(3,4,5-trimethoxyphenyl)methylj-, (S)- [CAS]	30418-38-3 21650- 42-0	ZA 6802416	Antiasthma	
TRH		24305-27-9			
TRI-506	TRI 50b [CAS]	226214-49-9		Antithrombotic	Thrombosis, general
Triacetin		102-76-1			
Triamcinolone		76-25-5			
Acetonide			· · · · ·		
Triamcinolone		31002-79-6	··		
Benetonide		5611_51_B			
Hexacetonide)			
	Pregna-1,4-diene-3,20-dione, 9-fluoro-		·		
	11,21-dihydroxy-16,17-[(1-	72 9E E			
triamcinolone	menyeulymenejustokyjr, († 18. torupild) [[CAS]	124-94-7		Formulation, inhalable, topical	Asthma
Triamterene		396-01-0			
triapine	Triapine [CAS]	236392-56-6	US 6458816	Anticancer, antimetabolite	Cancer, leukaemia, general
Triaziquone		68-76-8		Print Stance	
	8-chloro-6-(2-chlorophenyl)-1-methyl-4H-	4 70 77000		9	
triazolam	[1,2,4]-trazolo[4,3-a][1,4]benzodiazepine	28911-01-5	3980790	Hypnotic/Sedative	Insomnia
Tribenoside		10310-32-4			
Trichlorfon		52-68-6			
Trichlormethlazide		133-67-5			•
Trichlormethine		555-77-1			
Trichloroethylene		79-01-6			
Triclobisonium		79-90-3			
Triclocarban		101-20-2			
Triclofenol Piperazine	-	5/14-82-9			
i riciotos		300-32-3	- -		
Tricogni		85-90-5			
Tridihexethyl todide		125-99-5	· •		

API Generic Name	API Chemical Name CAS No. 172-Etiainediamine. N.N2-bis(2aminoethyl):38280-01-4	CAS No. 38260-01-4 112-	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
trientine	[CAS]	24-3			Metabolic and enzyme disorders	Wilson's disease
Triethanolamine		102-71-6				
Triethylenemelamine		51-18-3				
Triethylenephosphorami		545-55-1				
g e		7 70 03				
Triethylenethiophospho		5-47-7 0			•	
Triffuonerazine		117-89-5				
Triffuperidol		749-13-3				
Triflupromazine		146-54-3				
trifluridine	I nymidine, Apna,Apna,Apna-umuoro- [CAS]	70-00-8	S	3201387	Antiviral, other	Infection, herpes virus, general
	Benzoic acid, 2-(acetyloxy)-4-	207 70 2		4006262	Antithoombalio	Thrombosic negeral
triflusal		7-61-776	3	4030525	Andrinomood	
Trihexyphenidyi		52-49-3				
	Angrost-z-ene-z-caroonmie, 4,5-epoxy- 3,17-dihydroxy-, (4Alpha,5Alpha,17ß)-					
trilostane	[CAS]	13647-35-3	ရှ	3296255	Anticancer, hormonal	Cancer, breast
Trimazosin		35795-16-5				
	Benzoic acid, 3,4,5-trimethoxy-, 2- Idimethylamino-2-chenybutyl ester. (Z1-2-,34140-59-5 39133-	34140-59-5 39133-				
trimebutine	butenedioate (1:1) [CAS]	31-8	ᆱ	2151716	Antispasmodic	
Trimecaine		616-68-2				
Trimeprazine		84-96-8				•
Trimetazidine		5011-34-7				
Trimethadione		127-48-0				
Trimethaphan		68-91-7				
Trimethobenzamide		138-56-7				
Trimethoprim	•	738-70-5				
Trimetozine	a Lutom a comingential a	635-41-6				
trimetrexate	(13,4,5-trimethoxyphenyl)aminojmethylj- [CAS]	52128-35-5 82952-64-5	်ု တ	4391809	Antifungal	Infection, Pneumocystis jiroveci

API Generic Name	API Chemical Name	CAS No.	Patent Reference		Example of Therapeutic Use	Example of Indication
trimipramine	5H-Dibenzlb, fjazepine-5-propanamine, 10,11-dihydro-N,N,6-trimethyl-, (Z)-2-butenedioate (1:1) [CAS]	521-78-8 739-71-9			Antidepressant	
Trimoprostil		69900-72-7				
Trioxsalen		3902-71-4				
	Benzamide, 3-(aminosulfonyl)-4-chloro-N-					
tripamide	(3aAlpha,4Alpha,7Alpha,7aAlpha)- [CAS]	73803-48-2	JP 730	7305585	Antihypertensive, diuretic	Hypertension, general
Triparanol		78-41-1				
Tripelennamine		91-81-6				
Triprolidine		486-12-4				
triotorelin	Lutainizing hormone-releasing ractor (ptg), 6-D-tryptophan- [CAS]	124508-66-3 57773-63-4	US 401	4010125	Releasing hormones	Cancer, prostate
	Morpholine, 4-[thioxo(3,4,5-	36810 86 O	386	3862438	Anticipar	
UTBOZINƏ						
Tritoqualine		14504-73-5				
757 Z	Phosphonic acd, III4- (methythio)phenyljthiojmethylene]bis-, disodium salt (CAS)	151425-92-2	WO 941	9410181	Antiarthritic other	Arthritis, rheumatoid
I RN-350			<u>:</u>			
	2-Propenamide, N-{(5Alpha,6ß)-17- (cyclopropylmethy)-4,5-epoxy-3,14- ditydroxymorphinan-6-yl}-3-{3-furany)-N-					
TRK-820	methyf-, monohydrochloride, (2E)- [CAS]	152658-17-8	WO 931	9315081	Antipruritic/inflamm, non-altergic	Pruritus ·
Troclosene		2244-21-5				
	5-2-(chloroednyl)-2-lots(2- chloroethyl)amino]tetrahydro-2H-1,3,2-	22060 22.4	00	1100150	Anticontrol of the first	
trofostamide	סאקקאות ב-מאתם	1-77-607-7		8	Alucalistal, divysaurig	
Troglitazone		97322-87-7				
Troleandomycin		2751-9-9		,.		
Troinitrate	N-(1-adamantyl)-2-(2-dimethylamine	288-42-1				
tromantadine	ethoxy)acetamide	53783-83-8	음 194	1941218	Antiviral, other	Infection, herpes simplex virus
Tromethamine		77-86-1	_	-]		

			Patent			
API Generic Name	API Chemical Name	CAS No.	Reference		Example of Therapeutic Use	Example of Indication
Tropacine		6878-98-4				
Tropesin		65189-78-8			•	
Tropicamide		1508-75-4				
моги	1H-Indole-3-acetic acid, 1-(4- chlorobenzoyl)-5-methoxy-2-methyl-, 2- carboxy-2-phenylethyl ester, (+/-)- [CAS]	65189-78-8			Antiarthritic, other	
порізетоп	1H-Indole-3-carboxylic acid, 8-methyl-8- azabicyclo[3.2.1]oct-3-yl ester, endo-{CAS] 89565-68-4	89565-68-4	GB 2125398		Antiemetic	Chemotherapy-induced nausea and vomiting
Trospectomycin trospium	3Apha-Hydroxyspiro[1AphaH,5AphaH- nortopane-8,1'-pyrrolidinium] benzilate	10405-02-4			Urological	Pollakisuria
trovafloxacin	1,8-Naphthyridine-3-carboxylic acid, 7-(6-amino-3-azabicyclo[3.1.0]hex-3-yl)-1-(2,4-diffucrophenyl)-6-fluoro-1,4-dihydro-4-oxo-147059-72-1, (1Apha,5Alpha,6Alpha)-, [CAS]	147059-72-1 147059-75-4	US 5164402		Quinofone antibacterial	Infection, respiratory tract, general
troxacitabine	2(1H)-Pyrimidinone, 4-amino-1-(2- (hydroxymethyl)-1,3-dioxolan-4-yl)-, (2S- ds)-[CAS]	145918-75-8			Anticancer, other	Cancer, leukaemia, acute myelogenous
Troxerutin troxipide	Benzamide, 3,4,5-trimethoxy-N-3- piperdinyl-, (+/-)- [CAS]	7085-55-4 30751-05-4 99777- 81-8	US 3647805		Antiulcer	Ulcer, gastric
Trypan Red Tryparsamide Tryptophan		574-64-1 554-72-3 73-22-3				·
ТЅН	6,14-Ethenomorphinan-7-methanol, 17- (cyclopropyimethyl)-Alpha-(1,1- dimethylethyl)-,5-epoxy-18,19-dihydro-3-	9002-71-5	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
TSN-09	hydroxy-6-methoxy-Alpha-methyl-, [5Alpha,7Alpha,(S)]- [CAS]	52485-79-7		<u>.</u>	Formulation, transdermal, patch	Pain, cancer
TU-2100	Nonanedioic acid, bis((2- (ethoxycarbonyl)phenyl] ester		US 6180669		Antiacne	Acne

			Patent	ŧ		
API Generic Name	API Chemical Name	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
Tuaminoheptane		123-82-0				
Tubercidin		69-33-0				
Tubocurarine Chloride		57-94-3				
n-ichuterol	Benzanemethanol, 2-chloro-Alpha-[[(1,1-dimethylethyl)amino]methyl- [CAS]	41570-61-0	<u> </u>	2244737	Antiasthma	Asthma
	N-(Propargyl-(3R)aminoindan-5-yl)-ethyl					
TV-3326	methyl carbamate				Cognition enhancer	Alzheimer's disease
	Acetic acid, [2-[2,3,3a,6,7,7a-hexahydro-2-hydroxy-1-(3-hydroxy-4-4-dimethyl-1,6-					
TY-11223	. ত	140694-43-5	Sn	4837342	Antithrombotic	Unspecified
	6,7,8,9-Tetrahydro-2-methyl-5H- cyclohepta[b]pyridine-3-carbonylguanidine					
TY-12533	maleate		Sn	6258829	Antiamhythmic	Unspecified
TYB-3215	D-Glucitol, 1,4:3,6-dianhydro-, dinitrate [CAS]	87-33-2			Formulation, modified-release, other	Angina, general
Tybamate		4268-36-4				
	4-(1,1,3,3-Tetramethylbutyl)phenol notwer with formaldehyde and oxirane					
tytoxapol	[CAS]	25301-02-4			Formulation, inhatable, topical	Cystic fibrosis
Tymazoline		24243-97-8				
Tyramine		51-67-2				•
Tyropanoate		7246-21-1				
Ubenimex		58970-76-6				
	Benzoic acid, 2-[[3- (trifluoromethyl)phenyljamino}-, butyl ester			•		
ufenamate	[CAS]	67330-25-0	띪 .	861852	Antipruritic/Inflamm, non-allergic	
Undecylenic Acid		112-38-9				
Unoprostone		120373-36-6				

ADI Conorio Nomo	ADI Chemical Name	CAS No.	Patent Refere	926	Example of Therapeutic Use	Example of Indication
						Inflammation, general
liracii Mistard		66-75-1				
	1,2,3-Propanetricarboxylic acid, 2-hydroxy- potassium sodium satt (5:6:6), hydrate	55049.48.4	S	4400535	Univolval	
Gralyc-U			}			
	2,4(1H,3H)-Pyrimidinedione, 6-[[3-[4-(2-methoxyphenyl)-1- piperaziny[propyl]amino]-1,3-dimethyl-					-
urapidil	[CAS]	5.1	g	1309324	sive, adrenergic	Hypertension, general
urea	Urea [CAS]	57-13-6			Antipsoriasis	
Uredepa		302-49-8			**************************************	
Urethan		51-79-6				
Uridine 5'-Triphosphate		63-39-8				
Ilrinastatin		80449-31-6				
	10 40 and all 03				Formulation, other, Cirrhosis, primary	
ursodeoxycholic acid	sappas, rs-dinydroxy-ors-droian-z-4-orc acid [CAS]	128-13-2			pulary, repauc dysluroudi, billary calcalus	Cirrhosis, primary biliary
Ursodiol		128-13-2				
Ushercell			ട്ട	6063773	Formulation, mucosal, topical	Contraceptive, female
Uzarin		20231-81-6				
valaciclovir	L-Valine, 2-{(2-amino-1,8-dihydro-6-oxo-9H-purin-9-yl)methoxyjettyl ester [CAS]	124832-26-4	<u>a</u>	308065	Antiviral, other	Infection, herpes simplex virus
Valacyclovir		124832-26-4				
valdecoxib	Benzenesulfonamide, 4-(5-methyl-3- phenyl-4-isoxazolyl)- [CAS]	181695-72-7	ള	5859257	Antiarthritic, other	Arthritis, rheumatoid
Valdetamide		512-48-1 90-22-2				
	L-Valine, 2-((2-amino-1,6-dihydro-6-oxo-94-anin-8-vlymethoxy)-3-hydroxymoyl	175865-59-5				
valganciclovir	ester [CAS]	175865-60-8	<u>a</u>	694547	Antiviral, other	Infection, cytomegalovirus
Vainoctamide		41/1-12-0				

			Patent			
API Generic Name	API Chemical Name L-Valine (3R)-3-((2-amino-1,6-dihydro-6-	CAS No.	Refe	Reference	Example of Therapeutic Use	Example of Indication
valomaciclovir	oxo-9H-purin-9-yl)methyl)-4-((1- oxooctadecyl)oxy)butyl ester [CAS]	195156-77-5			Antiviral, other	Infection, herpes simplex virus
et contract	Pentanoic acid, 2-propyl-, [CAS]	76584-70-8 1069-66-5	മ	4988731	Antiepileptic	clonic
Valproic Acid		99-66-1				-
Valpromide	Chaffeens Conjunc C. M. Chi	2430-27-5				
valrocemide	Pentanamoe, N-(2-anum-2-0x0eury)-2- propyl- [CAS]	92262-58-3	೫	5585358	Antiepileptic	Epilepsy, general
	Pentanoic acid, 2-(1,2,3,4,6,11-hexahydro-2,5,12-trihydroxy-7-methoxy-6,11-dioxo-4-((2,3,6-trideoxy-3-((trifluoroacetyl)amino)-Apha-L-hxo-hexopyranosyl)oxy)-2-nachthacanth2-oxoefthyl ester (2S-cis)-					
valrubicin	[CAS]	56124-62-0	ജ	4035566	Anticancer, antibiotic	Cancer, bladder
valsartan	L-Valine, N-(1-oxopentyl)-N-[[2'-(1H-tetrazol-5-yl)[1,1'-biphenyl]-4-ylmethyl]-[CAS]	137862-53-4	85	443983	Antihypertensive, renin system	Hypertension, general
Valspodar		121584-18-7				
vardenafil	Piperazine, 1-(3-(1,4-dihydro-5-methyl(-4-oxo-7-propylimidazo(5,1-f)(1,2.4)-triazin-2-yl)-4-ethoxyphenyl)sutifonyl)-4-ethyl- [CAS] 224785-90-4	224785-90-4			Male sexual dysfunction	Sexual dysfunction, male, general
varespladib	Acetic acid, ((3-(aminooxoacetyl)-2-ethyl-1-172732-68-2 (phenylmethyl)-1H-indol-4-yl)oxy)- [CAS] 172733-42-5	172732-68-2 172733-42-5	81	675110	Septic shock treatment	Sepsie
Varicella Virus Vaccine						
on initial control in the control in	3,5-Pyridinedicarboxylic acid, 1,4-dihydro-2,6-dimethyl-4-(3-nitrophenyl)-, 2-[4-[4-(diphenylmethyl)-1-piperazinyl]phenyl]ethyl 116308-55-5 methyl ester, ICASI	116308-55-5 133743-71-2	9	257616	Neuroprofective	Hypertension, general
VEA				6007817	sitizer	Cancer, general

API Generic Name API Chemics Piperdinium, 1- ((26.3Alpha,5					_	
	API Chemical Name	CAS No.	Patent Reference	t ence	Example of Therapeutic Use	Example of Indication
	pha, 16ß, 17ß-3,17- -(1-piperidinyl)androstan- , [CAS]	50700-72-6	SU 4	4237126		Anaesthesia, adjunct
	ethylamino)-1-(4-	6 0	8	2227743	Antidepressant	Depression, general
	Benzeneacetonitrie, Alpha-[3-[[2-(3,4-dimethoxyphenyl)ethyljmethylaminojpropyl]-3,4-dimethoxy-Alpha-(1-methylethyl)-	66644-81-3			Formulation, modified-release, other	Hypertension, general
Verapamu 23H,25H dipropan dipropan 3,4-bis(n	၌					
verteporfin (CAS) Piperazii		129497-78-5	S S	5238940	Ophthalmological	Macular degeneration
vesnarinone [CAS]	[CAS]	81840-15-5 3735-45-3	8	2086896	Cardiostimulant	Heart failure
		95933-74-7	S S	4623659	Cardiovascular Male sexual dysfunction	Reperfusion injury Premature ejaculation
VI-0134 9H-Purir vidarabine [CAS]	9H-Purin-6-amine, 9-8-D-arabinofuranosyl-24356-66-9 [CAS] sesses se s	GREAT		1159290		Infection, herpes virus, general
vigabatrin 5-Hexen 2-Benzo	5-Hexenoic acid, 4-amino- [CAS] 2-Benzofurancarboxamide, 5-[4-[4-(5-		8	1472525	Antiepileptic	Epilepsy, partial (focal, local)
vilazodone [CAS]		163521-12-8 46817-91-8 21363-18-8	<u>.</u>	648767	Antidepressant	Depression, general
ital	Ebumamenin-14(15H)-one, (3Aipha,16Aipha)- [CAS]	125-44-0 865-21-4 474-00-0 4880-88-0	<u> </u>	1932245	Cognition enhancer	

API Generic Name	API Chemical Name		Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
Vincamine Vinconate		1617-90-9 70704-03-9				
vincristine	Vincaleukoblastine, 22-oxo-, sulfate (1:1) (salt) [CAS]	2068-78-2 57-22-7	<u>a</u>	207831	Formulation, parenteral, other	Cancer, general
vindesine	Vincaleukoblastine, 3-(aminocarbonyl)-O4-53643-48-4 deacetyl-3-de(methoxycarbonyl)- [CAS] 59917-39-4		8	1463575	Anticancer, other	Cancer, leukaemia, acute lymphocytic
	Aspidospermidire-3-carboxyfic acid, 4- (aceyloxy)-6,7-ditehydro-15- [(2R,4R,6S,8S)-4-(1,1-difluoroethyl)- 1,3,4,5,6,7,8,9-octahydro-8- (methoxycarboryl)-2,6-methano-2H- azecino[4,3-b]indol-8-yfl-3-hydroxy-16-					
vinflunine	methoxy-1-methyr, methyr ester, (28,38,48,5Alpha,128,19Alpha) - [CAS]	162652-95-1	Œ	2707988	Anticancer, other	Cancer, general
vinorelibine	C-Nowincateuxootasure, 3,4-croenyuro- 4'-deoxy- [CAS]	71486-22-1	& :	10458	Anticancer, other	Cancer, lung, non-small cell
vinpocetine	Eburnamenine-14-carboxylic acid, ethyl ester, (34pha, 164pha)- [CAS]	42971-09-5	8	1405127	Cognition enhancer	Cognitive disorder, general
Vinyl Ether Vinylbital		109-93-3 2430-49-1 84-55-0		****		
Vigurali Visnadine Vitamin A		3306-52-3 477-32-7 68-26-8				·
vitamin 812		7-h			romulation, uantimicosa, nasar	Alacalla, yelicia
vitamin C. Vitamin D. Vitamin D.	L-Ascorbic acid [CAS]	50-81-7 50-14-6 67-97-0 83-70-5			Formulation, modified-release, <=24hr Nutrition	Nutrition
Vitamin No Vitamins, Prenatal		2 ' 2 :				

API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
VLA-4 antagonists	((R,S)-4-(4-(Amino-imino-methyl)-phenyl)-3-((4-biphenylyl-methyl)-4-methyl-2,5-dioxoimidazolidin-1-yl)-acetyl-L-N-methyl-aspartyl-L-phenylglycine		£	842943	Antiasthma	Asthma
VNP-40101M	1,2-Bis(methylsuifonyl)-1-(2-chloroethyl)-2- (methylamino)carbonylhydrazine D-en-inositol, 3,4-dideoxy-4-ff2-hydroxy-1-		S	6040338	Anticancer, alkylating	Cancer, general
esoqijbov	(hydroxymethyl)ethyljamino]-2-C- (hydroxymethyl)- [CAS] 4-Pyrimidineethanol, Alpha-(2,4-	83480-29-9	<u> </u>	56194	Antidiabetic	Diabetes, Type II
voriconazole Vorozole	diffuorophenyl)-5-fluoro-G-methyl-Alpha- (1H-1,2,4-triazol-1-yfmethyl)-, (R-(R*,S*))- [CAS]	137234-62-9 129731-10-8	<u>a</u>	440372	Antifungal	Infection, fungal, general
VUF-K-8788	7-(3-[4-(2-Quinolinytmethyl)-1- piperazinylipropoxyj-3,4-dihydro-2H-1,4- benzothiazine-3-one				Antiasthma	Asthma
Warfarin		81-81-2			Charles and the state of the st	Chemotherapy-induced injury,
WF-10	Tetrachlorodecsoxde [LAS] 2-(3-[4-[3-(6-oxo-6H-2,10b-diaza-aceanthrenylen-5-ylamino)propyll-piperazin-1-y[propyl)-5-nitro-2-aza-phenalene-1,3-dione	304/-/9-Z			RadioColemopholecuve	
WAAC-79 wound healing matrix WP-170			ន្ទន	5897880 6531121	Anticancer, other Formulation, transdermal, patch Cytokine	Cencer, colorectal Ulcer, diabetic Unspecified
xaliproden	Pyridine, 1,2,3,6-setrahydro-1-[2-(2-naphthalenyl)ethylj-4-[3-(trifluoromethyl)phenyl-, [CAS] 4-Morpholinecarboxamide, N-[2-[[2-	135354-020-8	<u> </u>	101381	Neuroprotective	Amyotrophic lateral sclerosis
xamoterol	hydroxy-3-(4- hydroxyphenoxy)propyljaminojethylj-, (+/-)-73210-73-8 [CAS] 12-9	73210-73-8 81801-12-9	8	2002748	Cardiostimulant	Heart failure

API Generic Name Xanomeline	API Chemical Name	CAS No. 131986-45-3	Patent Refere	ıce	Example of Therapeutic Use	Example of Indication
Xanthinol Niacinate Xemilofiban Xenbucin Xibanolol		437-14-1 149820-74-6 959-10-4 81584-06-7				
xibomol	Phenol, 4,5-dimethyl-2-(1,7,7-timethylbicydo[2.2.1]hept-2-yl)-, exo-[CAS]	13741-18-9	89	1206774	Antibacterial, other	Infection, general
ximelagatran Ximoprofen	Glycine, N-((R)-cyclohexyl-2-((2S)-2-((((4- (hydroxyamino)iminomethyl)phenyl)methyl)amino)carbonyl)-1-azetidinyl)2-oxoethyl ethyl ester (CAS)	192339-46-1 56187-89-4			Antithrombotic	Thrombosis, venous
xpamide	Benzamide, 5-(aminosulfonyl)-4-chloro-N-(2,6-dimethylphenyl)-2-hydroxy-[CAS]	14293-44-8	S	3567777	Anthypertensive, diuretic	
xorphanol	Morphinan-3-ol, 17-(cyclobutylmethyl)-5- methyl-6-methylene-, (8\s)- [CAS]	77287-89-9			Analgesic, other	Pain, cancer
· XR-5118	2,5-Piperazinedione, 3-[[5-[2- (dimethylamino)ethyl]thio}-2- thienyl]methylene}-6-(phenylmethylene)-, monohydrochloride, (3Z,6Z)- [CAS] N,N-(1,2-Ethanediyl)bis(mino-2,1- ethanediyl)bis(9-methylphenazine-1-	174766-49-5	8	9532190	Anticancer, other	Cancer, general
XR-5944 Xylometazoline Xylose		526-36-3 58-86-6	.	934278	Anticancer, other	Cancer, general
YH-1885	2-Pyrimidinamine, 4-(3,4-dihydro-1-methyl-2(1H)-isoquinolinyl)-N-(4-fluorophenyl)-5,6-dimethyl-, monohydrochloride [CAS]	178307-42-1	8	9605177	Antiulcer	Ulcer, Gl, general
YM-511	Benzonitrile, 4-[[(4-bromophenyl)methyl]- 4H-1,2,4-triazol-4-ylamino]- [CAS]	148869-05-0	8	9305027	Anticancer, hormonal	Cancer, breast

API Generic Name	API Chemical Name	CAS No.	Patent Refere	Patent Reference	Example of Therapeutic Use	Example of Indication
	potassium(c.)-N-fo-meuroxy-5-(z-methoxyphenoxy)-2-(pyrimidin-2- yllovrimidin-4-vil-2-					
YN-598	phenylethenesulfonamidate	:			Anticancer, other	Cancer, prostate
Yohimbine		146-48-5				
YT-146	Adenosine, 2-(1-octynyl)- [CAS]	90596-75-1	മ	5270304	Anti-inflammatory	Inflammation, general
	Thiazolidine, 3-((2,3-dihydro-1H-inden-2-yl)acetyl)-4-(1-pymolidinylcarbonyl)-, (R)-					:
2-321	[CAS]	130849-58-0	<u>а</u>	372484	Cognition enhancer	Dementia, senile, general
	(1H-Indene-5-acetic acid, 2[[[(4-chlorophenyl)suffonyllaminolmethyll-2.3-					
2-335	dihydro, monosodium salt) [CAS]	146731-14-8	굨	92506077	Antithrombotic	Peripheral vascular disease
	Carbamic acid, [3-f[2-methoxy-4-fi](2-methylphenyl)sulfory[amino]carbonyliphenylmino]carbonyliphenylmindol-5-vfl-					
zafirtukast	cyclopentyl ester [CAS]	107753-78-6	8	199543	Antiasthma	Asthma
zakcitabine	Cytidine, 2,3'-dideoxy- [CAS]	7481-89-2	ജ	4879277	Antiviral, anti-HIV	Infection, HIV/AIDS
Zaldaride	-	109826-26-8				
4	Acetamide, N-[3-(3-cyanopyrazoło[1,5-	151319-34-5	8	776898	Hypnotic/Sedative	Insomnia
Today 7	Dibenzolo fithiedin-2-acetic ecid, 10.11-					
zattoprofen	dihydro-Apha-methyl-10-oxo- [CAS]	74711-43-6	<u>م</u>	55053282	Anti-inflammatory	
	5-Acatamido-2,6-anhydro-3,4,5-trideoxy-4-					•
zanamivir	guanidino-D-giyeero-D-galacto-non-2- enonic acid [CAS]	139110-80-8	8	9116320	Antiviral, other	Infection, influenza virus
	1-Propanone, 3-(1-(phenylmethyl)-4- piperidinyl)-1-(2,3,4,5-tetrahydro-1H-1-					•
zanapezil	benzazepin-8-yl)- [CAS]	142852-50-4	<u>a</u>	487071	Cognition enhancer	Alzheimer's disease
Zatebradine		85175-67-3				
25.00	Platinum, amminedichloro(2-	181630-15-9	e	727430	Anticancer alkylation	Cancer ovarian
20-03-7				9528388	Urological	Overactive bladder
<u>.</u>	N-acety/colchinol-O-phosphate					
ZD-6126					Anticancer, other	Cancer, general
	1H-Tetrazole-5-butanoic acid, Alpha-((4- (((1,4-dihydro-2,7-dimethyl-4-oxo-6- guinazolinylmethyl)-2-propynylamino)-2-					
ZD-9331	fluorobenzoyl)amino) (S)- [CAS]	153537-73-6	ထ္ထ	2264946	Anticancer, antimetabolite	Cancer, pancreatic

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API Generic Name	API Chemical Name	CAS No.	Refe	92	Example of Therapeutic Use	Example of Indication
	2(1H)-Pyrimidinone, 1-6-D-ribofuranosyl-					•
zebularine	[CAS]	3690-10-6			Anticancer, other	Cancer, general
	7,8-Isoquinolinediol, 4-(3,4-					
	dihydroxyphenyl)-1,2,3,4-tetrahydro-,					
zelandopam	[CAS]	138086-00-7	<u>-</u>	03190818	Vasodilator, renal	Hypertension, general
Zenarestat		112733-06-9				
Ziconotide		107452-89-1				
zidovudine	Thymidine, 3'-azido-3'-deoxy- [CAS]	30516-87-1	S	4724232	Antiviral, anti-HIV	Infection, HIV/AIDS
	Urea, N-(1-benzo[b]thien-2-ylethyl)-N-					
zileuton	hydroxy-[CAS]	111406-87-2	<u>a</u>	279263	Antiasthma ·	Asthma
Zimeldine	•	56775-88-3				
•					1	Infection, herpes simplex virus
zinc acetate	hexakis(vm-acetato)-vm4-oxotetrazinc	12129-82-7			Antiviral, other	prophylaxis
	Hexanoic acid, 6-(acetylamino)-, zinc salt					
zinc acexamate	(2:1)- [CAS]	70020-71-2	<u>&</u>	369088	Antiuker	Ulcer, duodenal
zinc ibuprofenate	•	78416-80-5			Anti-inflammatory, topical	Inflammation, dermal
Zine n Bhanole il Konata		127.82.2				
ליווכ לא וופווסופתוים וופיפ		7-70-17				
Zine Caliewlate		16783_36_B				
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Zinostaun	4	3014-6-6 422760 07 6	8			-
zinostatin stamatamer		123/00-0/-0 24750 02 2		18/981	Anticancer, antibiotic	Cancer, iiver
louded:7		04/00-00-7				
	2H-Indol-2-one, 5-(2-(4-(1,2-					
	benzisothiazol-3-yl)-1-piperazinyl)ethyl)-6- 122883-93-6	122883-93-6				
ziprasidone	chloro-1,3-dihydro- [CAS]	146939-27-7	81	281309	Neuroleptic	Schizophrenia
	L-Proline, 1-[3-(benzoytthio)-2-methyl-1-	75176-37-3				
	oxopropylj-4-(phemytthio)-	81872-10-8				
zofenopril	[1(R*),2Apha,4Apha}-[CAS]	81938-43-4	8	2028327	Antihypertensive, renin system	Hypertension, general
	L-Proline, 1-[3-(benzoylthio)-2-methyl-1-					
	oxopropy(]-4-(phenytthio)-					
	[1(R"), 24pha, 4Apha] + 6-Choro-3,4-					
7407	dihydro-2H-1,2,4-benzothiazide-7-	-				
Zorenoprii + mci Z	Observation of 1, 1-dioxide (CAS)	. 60 020			rormulation, inxed-dose combinations	Hypertension, general
zoledmuic acid	imidazoL1-v)ethvidanalbis. [CAS]	1100/2-93-0 165800-06-6	0	531253	Octooromeis treatment	Hunamales of maintains
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			Patent	int		Example of Indication
API Generic Name	API Chemical Name	CAS No.	<u> </u>	Keterence	Example of Inerapeutic Use	Example of mulcanon
zolimidine	apyridire	1222-57-7	S	3318880	Antiulær	Gastritis
	2-Oxazolidinone, 4-((3-(2-(dimethylamino)ethyl)-1H-indol-5-	130064-17-8	٤	0118807	Antimintaina	Mioraine
zoimimpian	William (Caral Co.)			200		
	9,	4-93-6 82626	{		· ·	
zopidem	2,3-dihydroxybutanediotade (2:1) [CAS]	33369-31-2	<u> </u>		Hypnotic/Sedative	
Zollepilac	4/211) Pelinovalinoscatic acid & 4 dilhydra		:		:	
and the same of th	cunoxameaceuc acco, 5,4-cunyono- imidazol-1-yl}-6-nitro-2,3-dioxo-				•	
zonampanel	:	210245-80-0	j	i	Neuroprotective	Ischaemia, cerebrai
zoniporide		249296-45-5			Cardiovascular	Unspecified
zonisamide	1.2-Benzisoxazole-3-methanesulfonamide 68291-97-4 [CAS]	68291-97-4 68291-98-5	8	2025931	Antieplieptic	Epilepsy, generalized, tonic- donic
			:	:		
zopidone Zopolrestat Zorubicin	1-Piperazinecarboxylic acid, 4-methyl-, 6- (6-chloro-2-pyrdinyl)-6,7-dihydro-7-oxo-5H pyrrdio[3,4-b]pyrazin-5-yl ester [CAS]	43200-80-2 110703-94-1 54083-22-6	89	1358680	Hypnotic/Sedative	Insomnia
zvanudar	1-Piperazineethanol, 4-(1,1-difluoro- 1,1a,6,10b- tetrahydrodibenzo[a,e]cydopropa[c]cydoh epten-6-yl)-Alpha-{(5-quinolinyloxy)methyl]- (6/R)-(1aAlbha,8Albha,10bAlbha)]- [CAS]	167465-36-3			Radio/chemosensitizer	Cancer, leukaemia, acute myelogenous
zotapine	Ethanamine, 2-((8-chlorodibenzolo,f)thiepin-10-yl)oxyj-N,N-26615-21-4	26615-21-4	8	1247067	Neuroleptic	Schizophrenia
79.123			8	WO 0162775	Antiarrhythmic	Arrhythmia, general
Z-tamoxifen	Ethanamine, 2-{4-(1,2-diphenyl-1-butenyl)phenoxyl-N,N-dimethyl-, (2)-[CAS]	10540-29-1			Anticancer, hormonal	Cancer, colorectal

omen discussion	API Chemical Name	CAS No.	Patent Refere	92	Example of Therapeutic Use	Example of Indication
Ari Cellelle Maille		53772-83-1 982-24-1	.— <u> </u>		•	
zuclopenthixol	1-Piperazineethanol, 4-(3-(2-chloro-9H-85721-05-7 thioxanthen-9-yildene)propyly. (Z)-(CAS) 64053-00-5	85721-05-7 64053-00-5	EP 2	EP 270282	Neuroleptic	Psychosis, general

CLAIMS:

- 1. A pharmaceutical co-crystal composition, comprising: an API and a co-crystal former, wherein both the API and the co-crystal former are solids at room temperature and the API and co-crystal former are hydrogen bonded to each other.
- 2. The pharmaceutical co-crystal composition according to claim 1, wherein the co-crystal former is selected from a co-crystal former of Table I or Table II.
- 3. The pharmaceutical co-crystal composition according to claim 1, wherein the API is selected from an API of Table IV.
- 4. The pharmaceutical co-crystal composition according to claim 1, wherein the API is selected from an API of Table IV and the co-crystal former is selected from a co-crystal former of Table I or Table II.
- 5. A pharmaceutical co-crystal composition, comprising: an API, a co-crystal former, and a third molecule, wherein the API and the co-crystal former are solids at room temperature, and wherein the API and the third molecule are bonded to each other, and further wherein the co-crystal former and the third molecule are hydrogen bonded to each other.
- 6. A pharmaceutical co-crystal composition, comprising: an API and a co-crystal former, wherein the API is liquid and the co-crystal former is solid at room temperature, and wherein the API and the co-crystal former are hydrogen bonded to each other.
- 7. The pharmaceutical co-crystal composition according to claim 6, wherein the API is selected from an API of Table IV and the co-crystal former is selected from a co-crystal former of Table I or Table II.
- 8. A pharmaceutical co-crystal composition, comprising: two APIs, wherein one or both of the APIs are solids at room temperature, and wherein the two APIs are hydrogen bonded to each other.

- 9. The pharmaceutical co-crystal composition according to claim 8, wherein each API is selected from an API of Table IV.
- 10. A pharmaceutical co-crystal composition, comprising: two co-crystal formers, wherein both co-crystal formers are solids at room temperature, and wherein both co-crystal formers are hydrogen bonded to each other.
- 11. The pharmaceutical co-crystal composition according to claim 10, wherein each co-crystal former is selected from a co-crystal former of Table I or Table II.
- 12. The pharmaceutical co-crystal composition according to claim 1, wherein the API and the co-crystal former form an inclusion complex.
- 13. A pharmaceutical co-crystal composition, comprising: an API and a co-crystal former; wherein the API has at least one functional group selected from the group consisting of ether, thioether, alcohol, thiol, aldehyde, ketone, thioketone, nitrate ester, phosphate ester, thiophosphate ester, ester, thioester, sulfate ester, carboxylic acid, phosphonic acid, phosphinic acid, sulfonic acid, amide, primary amine, secondary amine, ammonia, tertiary amine, sp2 amine, thiocyanate, cyanamide, oxime, nitrile diazo, organohalide, nitro, sheterocyclic ring, thiophene, n-heterocyclic ring, pyrrole, o-heterocyclic ring, furan, epoxide, peroxide, hydroxamic acid, imidazole, and pyridine, and the co-crystal former has at least one functional group selected from ether, thioether, alcohol, thiol, aldehyde, ketone, thioketone, nitrate ester, phosphate ester, thiophosphate ester, ester, thioester, sulfate ester, carboxylic acid, phosphonic acid, phosphinic acid, sulfonic acid, amide, primary amine, secondary amine, ammonia, tertiary amine, sp2 amine, thiocyanate, cyanamide, oxime, nitrile, diazo, organohalide, nitro, s-heterocyclic ring, thiophene, n-heterocyclic ring, pyrrole, oheterocyclic ring, furan, epoxide, peroxide, hydroxamic acid, imidazole, and pyridine, such that the drug and co-crystal forming compound are capable of co-crystallizing from a solution phase under crystallization conditions and a hydrogen bond is formed between a hydrogen bond donor and a hydrogen bond acceptor.
- 14. The pharmaceutical composition according to claim 1, wherein (i) one of the API and co-crystal forming compound has at least one hydrogen bond donor group and (ii) the other has at least one hydrogen bond acceptor group.

- 15. The pharmaceutical composition according to claim 14, wherein the difference in pKa between the API and the co-crystal forming compound does not exceed 2.
- 16. The pharmaceutical composition according to claim 1, wherein the API is selected from celecoxib, carbamazepine, itraconazole, olanzapine, topiramate and modafinil.
- 17. The pharmaceutical composition according to claim 1, wherein the API is selected from 5-fluorouracil, hydrochlorothiazide, acetaminophen, aspirin, flurbiprofen, phenytoin, and ibuprofen.
- 18. The pharmaceutical composition according to claim 1, which further comprises a pharmaceutically acceptable diluent, excipient or carrier.
- 19. A co-crystal comprising carbamazepine and saccharin.
- 20. A co-crystal comprising carbamazepine and nicotinamide.
- 21. A co-crystal comprising carbamazepine and trimesic acid.
- 22. A co-crystal comprising celecoxib and nicotinamide.
- 23. A co-crystal comprising olanzapine and nicotinamide.
- 24. A co-crystal comprising celecoxib and 18-crown-6.
- 25. A co-crystal comprising itraconazole and succinic acid.
- 26. A co-crystal comprising itraconazole and fumaric acid.
- 27. A co-crystal comprising itraconazole and tartaric acid.
- 28. A co-crystal comprising itraconazole and malic acid.

- 29. A co-crystal comprising itraconazoleHCl and tartaric acid.
- 30. A co-crystal comprising modafinil and malonic acid.
- 31. A co-crystal comprising modafinil and benzamide.
- 32. A co-crystal comprising modafinil and mandelic acid.
- 33. A co-crystal comprising modafinil and glycolic acid.
- 34. A co-crystal comprising modafinil and fumaric acid.
- 35. A co-crystal comprising modafinil and maleic acid.
- 36. A co-crystal comprising topiramate and 18-crown-6.
- 37. A co-crystal comprising 5-fluorouracil and urea.
- 38. A co-crystal comprising hydrochlorothiazide and nicotinic acid.
- 39. A co-crystal comprising hydrochlorothiazide and 18-crown-6.
- 40. A co-crystal comprising hydrochlorothiazide and piperazine.
- 41. A co-crystal comprising acetaminophen and 4,4'-bipyridine.
- 42. A co-crystal comprising phenytoin and pyridone.
- 43. A co-crystal comprising aspirin and 4,4'-bipyridine.
- 44. A co-crystal comprising ibuprofen and 4,4'-bipyridine.
- 45. A co-crystal comprising flurbiprofen and 4,4'-bipyridine.

- 46. A co-crystal comprising flurbiprofen and trans-1,2-bis(4-pyridyl) ethylene.
- 47. A co-crystal comprising carbamazepine and p-phthalaldehyde.
- 48. A co-crystal comprising carbamazepine and 2,6-pyridinecarboxylic acid.
- 49. A co-crystal comprising carbamazepine and 5-nitroisophthalic acid.
- 50. A co-crystal comprising carbamazepine and 1,3,5,7-adamantane tetracarboxylic acid.
- 51. A co-crystal comprising carbamazepine and benzoquinone.
- 52. A process for the production of a pharmaceutical co-crystal composition, which process comprises:
 - (1) providing an API which has at least one functional group selected from the group consisting of: ether, thioether, alcohol, thiol, aldehyde, ketone, thioketone, nitrate ester, phosphate ester, thiophosphate ester, ester, thioester, sulfate ester, carboxylic acid, phosphonic acid, phosphinic acid, sulfonic acid, amide, primary amine, secondary amine, ammonia, tertiary amine, sp2 amine, thiocyanate, cyanamide, oxime, nitrile, diazo, organohalide, nitro, sheterocyclic ring, thiophene, n-heterocyclic ring, pyrrole, o-heterocyclic ring, furan, epoxide, peroxide, hydroxamic acid, imidazole, and pyridine;
 - (2) providing a co-crystal former which has at least one complementary functional group selected from the group consisting of: ether, thioether, alcohol, thiol, aldehyde, ketone, thioketone, nitrate ester, phosphate ester, thiophosphate ester, ester, thioester, sulfate ester, carboxylic acid, phosphonic acid, phosphinic acid, sulfonic acid, amide, primary amine, secondary amine, ammonia, tertiary amine, sp2 amine, thiocyanate, cyanamide, oxime, nitrile, diazo, organohalide, nitro, s-heterocyclic ring, thiophene, n-heterocyclic ring, pyrrole, o-heterocyclic ring, furan, epoxide, peroxide, hydroxamic acid, imidazole, and pyridine;
 - (3) grinding, heating, or contacting in solution the API with the co-crystal former under crystallization conditions; so as to form a solid phase;
 - (4) isolating co-crystals formed thereby; and

- (5) incorporating the co-crystals into a pharmaceutical composition; wherein the API is a liquid or solid at room temperature and the co-crystal former is a solid at room temperature, and wherein the API and co-crystal former are hydrogen bonded to each other.
- 53. The process according to claim 52, wherein:
 - (a) the co-crystal former is selected from a co-crystal former of Table I or Table II:
 - (b) the API is selected from an API of Table IV;
 - (c) the API is selected from an API of Table IV and the co-crystal former is selected from a co-crystal former of Table I or Table II;
 - (d) the API and the co-crystal former form an inclusion complex;
 - (e) (i) one of the API and co-crystal forming compound has at least one hydrogen bond donor group; and
 - (ii) the other has at least one hydrogen bond acceptor group;
 - (f) the difference in pKa between the API and the co-crystal former does not exceed 2;
 - (g) the API is selected from the group consisting of celecoxib, carbamazepine, itraconazole, olanzapine, topiramate, and modafinil;
 - (h) the API is selected from the group consisting of 5-fluorouracil, hydrochlorothiazide, acetaminophen, aspirin, flurbiprofen, phenytoin, and ibuprofen; or
 - (i) the pharmaceutical co-crystal composition further comprises a pharmaceutically acceptable diluent, excipient, or carrier.
- 54. The process for the production of a pharmaceutical co-crystal composition, which process comprises:
 - (3) providing an API which has at least one functional group selected from the group consisting of ether, thioether, alcohol, thiol, aldehyde, ketone, thioketone, nitrate ester, phosphate ester, thiophosphate ester, ester, thioester, sulfate ester, carboxylic acid, phosphonic acid, phosphinic acid, sulfonic acid, amide, primary amine, secondary amine, ammonia, tertiary amine, sp2 amine, thiocyanate, cyanamide, oxime, nitrile, diazo, organohalide, nitro, sheterocyclic ring, thiophene, n-heterocyclic ring, pyrrole, o-heterocyclic ring, furan, epoxide, peroxide, hydroxamic acid, imidazole, and pyridine;

- (4) providing a co-crystal former which has at least one complementary functional group selected from the group consisting of ether, thioether, alcohol, thiol, aldehyde, ketone, thioketone, nitrate ester, phosphate ester, thiophosphate ester, ester, thioester, sulfate ester, carboxylic acid, phosphonic acid, phosphinic acid, sulfonic acid, amide, primary amine, secondary amine, ammonia, tertiary amine, sp2 amine, thiocyanate, cyanamide, oxime, nitrile, diazo, organohalide, nitro, s-heterocyclic ring, thiophene, n-heterocyclic ring, pyrrole, o-heterocyclic ring, furan, epoxide, peroxide, hydroxamic acid, imidazole, and pyridine;
- (3) grinding, heating, or contacting in solution the API with the co-crystal former under crystallization conditions; so as to form a solid phase;
- (4) isolating co-crystals formed thereby; and
- (5) incorporating the co-crystals into a pharmaceutical composition; wherein the API is a liquid or solid at room temperature and the co-crystal former is a solid at room temperature, and wherein the API and a third molecule are bonded to each other, and further wherein the co-crystal former and the third molecule are hydrogen bonded to each other.
- 55. The process according to claim 52, wherein: the API is a liquid at room temperature.
- 56. The process according to claim 55, wherein the API is selected from an API of Table IV and the co-crystal former is selected from a co-crystal former of Table II.
- 57. A process for the production of a pharmaceutical co-crystal composition, which process comprises:
 - (1) providing an API which has at least one functional group selected from the group consisting of ether, thioether, alcohol, thiol, aldehyde, ketone, thioketone, nitrate ester, phosphate ester, thiophosphate ester, ester, thioester, sulfate ester, carboxylic acid, phosphonic acid, phosphinic acid, sulfonic acid, amide, primary amine, secondary amine, ammonia, tertiary amine, sp2 amine, thiocyanate, cyanamide, oxime, nitrile, diazo, organohalide, nitro, s-heterocyclic ring, thiophene, n-heterocyclic ring, pyrrole, o-heterocyclic ring, furan, epoxide, peroxide, hydroxamic acid, imidazole, and pyridine;
 - (2) providing another API which has at least one complementary functional group selected from the group consisting of ether, thioether, alcohol, thiol, aldehyde, ketone,

thioketone, nitrate ester, phosphate ester, thiophosphate ester, ester, thioester, sulfate ester, carboxylic acid, phosphonic acid, phosphinic acid, sulfonic acid, amide, primary amine, secondary amine, ammonia, tertiary amine, sp2 amine, thiocyanate, cyanamide, oxime, nitrile, diazo, organohalide, nitro, s-heterocyclic ring, thiophene, n-heterocyclic ring, pyrrole, o-heterocyclic ring, furan, epoxide, peroxide, hydroxamic acid, imidazole, and pyridine;

- (3) grinding, heating, or contacting in solution the APIs under crystallization conditions; so as to form a solid phase;
- (4) isolating co-crystals formed thereby; and
- (5) incorporating the co-crystals into a pharmaceutical composition; wherein one or both of the APIs are solids at room temperature, and wherein the two APIs are hydrogen bonded to each other.
- 58. The process according to claim 57, wherein each API is selected from an API of Table IV.
- 59. A process for the production of a pharmaceutical co-crystal composition, which process comprises:
 - (1) providing a co-crystal former which has at least one functional group selected from the group consisting of ether, thioether, alcohol, thiol, aldehyde, ketone, thioketone, nitrate ester, phosphate ester, thiophosphate ester, ester, thioester, sulfate ester, carboxylic acid, phosphonic acid, phosphinic acid, sulfonic acid, amide, primary amine, secondary amine, ammonia, tertiary amine, sp2 amine, thiocyanate, cyanamide, oxime, nitrile, diazo, organohalide, nitro, s-heterocyclic ring, thiophene, n-heterocyclic ring, pyrrole, o-heterocyclic ring, furan, epoxide, peroxide, hydroxamic acid, imidazole, and pyridine;
 - (2) providing another co-crystal former which has at least one complementary functional group selected from the group consisting of ether, thioether, alcohol, thiol, aldehyde, ketone, thioketone, nitrate ester, phosphate ester, thiophosphate ester, ester, thioester, sulfate ester, carboxylic acid, phosphonic acid, phosphinic acid, sulfonic acid, amide, primary amine, secondary amine, ammonia, tertiary amine, sp2 amine, thiocyanate, cyanamide, oxime, nitrile, diazo, organohalide, nitro, s-heterocyclic ring, thiophene, n-heterocyclic ring, pyrrole, o-heterocyclic ring, furan, epoxide, peroxide, hydroxamic acid, imidazole, and pyridine:

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- (3) grinding, heating, or contacting in solution the co-crystal formers under crystallization conditions; so as to form a solid phase;
- (4) isolating co-crystals formed thereby; and
- (5) incorporating the co-crystals into a pharmaceutical composition; wherein both co-crystal formers are solids at room temperature, and wherein both co-crystal formers are hydrogen bonded to each other.
- 60. The process according to claim 59, wherein each co-crystal former is selected from a co-crystal former of Table I and Table II.
- 61. The process according to claim 52, wherein the co-crystal is selected from the group consisting of carbamazepine:saccharin, carbamazepine:nicotinamide, carbamazepine:trimesic acid, celecoxib:nicotinamide, olanzapine:nicotinamide, celecoxib:18-crown-6, itraconazole:succinic acid, itraconazole:fumaric acid, itraconazole:tartaric acid, itraconazole:malic acid, itraconazoleHCl:tartaric acid, modafinil:malonic acid, modafinil:benzamide, modafinil:mandelic acid, modafinil:glycolic acid, modafinil:fumaric acid, modafinil:maleic acid, topiramate:18-crown-6, 5-fluorouracil:urea, hydrochlorothiazide:nicotinic acid, hydrochlorothiazide:18-crown-6, hydrochlorothiazide:piperazine, acetaminophen:4,4'-bipyridine, phenytoin:pyridone, aspirin:4,4'-bipyridine, ibuprofen:4,4'-bipyridine, flurbiprofen:4,4'-bipyridine, flurbiprofen:trans-1,2-bis(4-pyridyl) ethylene, carbamazepine:p-phthalaldehyde, carbamazepine:2,6-pyridinecarboxylic acid, carbamazepine:5-nitroisophthalic acid, carbamazepine:benzoquinone.
- 62. A process for the production of a pharmaceutical composition, which comprises:
- (1) contacting in solution an API with a co-crystal forming compound, under crystallization conditions, so as to form a solid phase;
 - (2) isolating the solid phase;
- (3) testing the solid phase for the presence of co-crystals of the API and the cocrystal forming compound; and
- (4) incorporating the co-crystals when formed in step (3) into a pharmaceutical composition.
- 63. A process for the production of a pharmaceutical composition, which comprises:

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- (1) providing (i) an API or a plurality of different APIs, and (ii) a co-crystal forming compound or a plurality of different co-crystal forming compounds, wherein at least one of the API and the co-crystal forming compound is provided as a plurality thereof;
- (2) screening for co-crystals of APIs with co-crystal forming compounds by subjecting each combination of API and co-crystal forming compound to a step comprising
- (a) contacting in solution the API with the co-crystal forming compound under crystallization conditions so as to form a solid phase;
 - (b) isolating the solid phase; and
 - testing the solid phase for the presence of co-crystals of the API and the cocrystal forming compound; and
- (3) incorporating the co-crystals when formed in step (c) into a pharmaceutical composition.
- 64. A process for modulating the solubility of an API for use in a pharmaceutical composition, which process comprises:
- contacting in solution the API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound;
 - (2) isolating the co-crystal;
 - (3) testing the co-crystal for modulated solubility as compared to the API; and
- (4) incorporating the co-crystal having modulated solubility into a pharmaceutical composition.
- 65. A process for modulating the dose response of an API for use in a pharmaceutical composition, which process comprises:
- (1) contacting in solution the API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound;
 - (2) isolating the co-crystal;
- (3) testing the co-crystal for modulated dose response as compared to the API;and
- (4) incorporating the co-crystal having modulated dose response into a pharmaceutical composition.

- 66. A process for modulating the dissolution of an API for use in a pharmaceutical composition, which process comprises:
- (1) contacting in solution the API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound;
 - (2) isolating the co-crystal;
 - (3) testing the co-crystal for modulated dissolution as compared to the API; and
- (4) incorporating the co-crystal having modulated dissolution into a pharmaceutical composition.
- 67. A process for modulating the bioavailability of an API for use in a pharmaceutical composition, which process comprises:
- contacting in solution the API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound;
 - (2) isolating the co-crystal;
- (3) testing the co-crystal for modulated bioavailability as compared to the API; and
- (4) incorporating the co-crystal having modulated bioavailability into a pharmaceutical composition.
- 68. A process for increasing the stability of an API for use in a pharmaceutical composition, which process comprises:
- (1) contacting in solution the API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound;
- (2) isolating the co-crystal, wherein the co-crystal has increased stability as compared to the API; and
- (3) incorporating the co-crystal having increased stability into a pharmaceutical composition.
- 69. A process for the incorporation of a difficult to salt or unsaltable API for use in a pharmaceutical composition, which process comprises:

- (1) contacting in solution the API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound;
 - (2) isolating the co-crystal;
- (3) incorporating the co-crystal having a difficult to salt or unsaltable API into a pharmaceutical composition.
- 70. A process for decreasing the hygroscopicity of an API for use in a pharmaceutical composition, which process comprises:
- contacting in solution the API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound;
- (2) isolating the co-crystal, wherein the co-crystal has decreased hygroscopicity as compared to the API; and
- (3) incorporating the co-crystal having decreased hygroscopicity into a pharmaceutical composition.
- 71. A process for crystallizing an amorphous API for use in a pharmaceutical composition, which process comprises:
- (1) contacting in solution the API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound;
 - (2) isolating the co-crystal;
 - (4) incorporating the co-crystal into a pharmaceutical composition.
- 72. A process for decreasing the form diversity of an API for use in a pharmaceutical composition, which process includes:
- contacting in solution the API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound;
- (2) isolating the co-crystal wherein the co-crystal has decreased form diversity as compared to the API; and
- (3) incorporating the co-crystal having decreased form diversity into a pharmaceutical composition.

- 73. A process for modulating the morphology of an API for use in a pharmaceutical composition, which process includes:
- contacting in solution the API with a co-crystal forming compound under crystallization conditions, so as to form a co-crystal of the API and the co-crystal forming compound;
- (2) isolating the co-crystal, wherein the co-crystal has a different morphology as compared to the API; and
- (3) incorporating the co-crystal having modulated morphology into a pharmaceutical composition.
- The co-crystal of claim 1, specifically excluding co-crystals selected from the group 74. consisting of: nabumetone:2,3-naphthalenediol, fluoxetine HCl:benzoic acid, fluoxetine HCl:succinic acid, acetaminophen:piperazine, acetaminophen:theophylline, theophylline:salicylic acid, theophylline:p-hydroxybenzoic acid, theophylline:sorbic acid, theophylline:1-hydroxy-2-naphthoic acid, theophylline:glycolic acid, theophylline:2,5dihydroxybenzoic acid, theophylline:chloroacetic acid, bis(diphenylhydantoin):9ethyladenine acetylacetone solvate, bis(diphenylhydantoin):9-ethyladenine 2,4-pentanedione solvate, 5,5-diphenylbarbituric acid:9-ethyladenine, bis(diphenylhydantoin):9-ethyladenine, 4-aminobenzoic acid:4-aminobenzonitrile, sulfadimidine:salicylic acid, 8hydroxyquinolinium 4-nitrobenzoate:4-nitrobenzoic acid, sulfaproxyline:caffeine, retroinverso-isopropyl (2R,3S)-4-cyclohexyl-2-hydroxy-3-(N-((2R)-2morpholinocarbonylmethyl-3-(1-naphthyl)propionyl)-L-histidylamino)butyrate:cinnamic acid monohydrate, benzoic acid:isonicotinamide, 3-(2-N',N'-(dimethylhydrazino)-4thiazolylmethylthio)-N"-sulfamoylpropionamidine:maleic acid, diglycine hydrochloride (C₂H₅NO₂:C₂H₆NO₂⁺Cl'), octadecanoic acid:3-pyridinecarboxamide, cis-N-(3-methyl-1-(2-(1,2,3,4-tetrahydro)naphthyl)-piperidin-4-yl)-N-phenylpropanamide hydrochloride:oxalic acid, trans-N-(3-methyl-1-(2-(1,2,3,4-tetrahydro)naphthyl)-piperidin-4-ylium)-Nphenylpropanamide oxalate:oxalic acid dihydrate, bis(1-(3-((4-(2-isopropoxyphenyl)-1piperazinyl)methyl)benzoyl)piperidine) succinate:succinic acid, bis(pcyanophenyl)imidazolylmethane:succinic acid, cis-1-((4-(1imidazolylmethyl)cyclohexyl)methyl)imidazole:succinic acid, (+)-2-(5,6-dimethoxy-1,2,3,4tetrahydro-1-naphthyl)imidazoline:(+)-dibenzoyl-D-tartaric acid, raclopride:tartaric acid, 2.6diamino-9-ethylpurine:5,5-diethylbarbituric acid, 5,5-diethylbarbituric acid:bis(2-

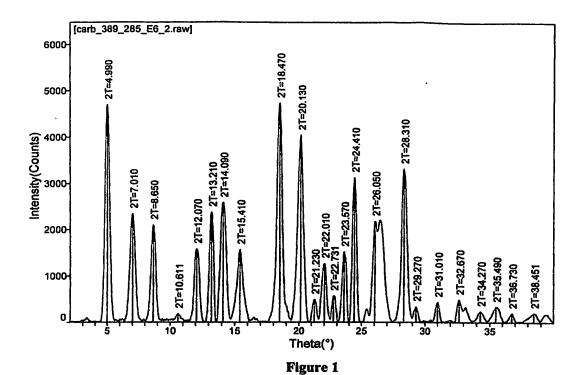
aminopyridine), 5,5-diethylbarbituric acid:acetamide, 5,5-diethylbarbituric acid:KI₃, 5,5diethylbarbituric acid:urea, bis(barbital):hexamethylphosphoramide, 5,5-diethylbarbituric acid:imidazole, barbital:1-methylimidazole, 5,5-diethylbarbituric acid:N-methyl-2-pyridone, 2,4-diamino-5-(3,4,5-trimethoxybenzyl)-pyrimidine:5,5-diethylbarbituric acid, bis(barbital):caffeine, bis(barbital):1-methylimidazole, bis(beta-cyclodextrin):bis(barbital) hydrate, tetrakis(beta-cyclodextrin):tetrakis(barbital), 9-ethyladenine:5,5-diethylbarbituric acid, barbital:N'-(p-cyanophenyl)-N-(p-iodophenyl)melamine, barbital:2-amino-4-(mbromophenylamino)-6-chloro-1,3,5-triazine, 5,5-diethylbarbituric acid:N,N'diphenylmelamine, 5,5-diethylbarbituric acid:N,N'-bis(p-chlorophenyl)melamine, N,N'bis(p-bromophenyl)melamine:5,5-diethylbarbituric acid, 5,5-diethylbarbituric acid:N,N'bis(p-iodophenyl)melamine, 5,5-diethylbarbituric acid:N,N'-bis(p-tolyl)melamine, 5,5diethylbarbituric acid:N,N'-bis(m-tolyl)melamine, 5,5-diethylbarbituric acid:N,N'-bis(mchlorophenyl)melamine, N,N'-Bis(m-methylphenyl)melamine:barbital, N,N'-bis(mchlorophenyl)melamine:barbital tetrahydrofuran solvate, 5,5-diethylbarbituric acid:N,N'bis(t-butyl)melamine, 5,5-diethylbarbituric acid:N,N'-di(t-butyl)melamine, 6,6'-diquinolyl ether:5,5-diethylbarbituric acid, 5-t-butyl-2,4,6-triaminopyrimidine:diethylbarbituric acid, N,N'-bis(4-carboxymethylphenyl)melamine:barbital ethanol solvate, N,N'-bis(4-tbutylphenyl)melamine:barbital, tris(5,17-N,N'-bis(4-amino-6-(butylamino)-1,3,5-triazin-2yl)diamino-11,23-dinitro-25,26,27,28-tetrapropoxycalix(4)arene):hexakis(diethylbarbituric acid) toluene solvate, N,N'-bis(m-fluorophenyl)melamine:barbital, N,N'-bis(mbromophenyl)melamine:barbital acetone solvate, N,N'-bis(m-iodophenyl)melamine:barbital acetonitrile solvate, N,N'-bis(m-trifluoromethylphenyl)melamine:barbital acetonitrile solvate, aminopyrine:barbital, N,N'-bis(4-fluorophenyl)melamine:barbital, N,N'-bis(4trifluoromethylphenyl)melamine:barbital, 2,4-diamino-5-(3,4,5trimethoxybenzyl)pyrimidine:barbital, hydroxybutyrate:hydroxyvalerate, 2aminopyrimidine:succinic acid, 1,3-bis(((6-methylpyrid-2yl)amino)carbonyl)benzene:glutaric acid, 5-t-butyl-2,4,6triaminopyrimidine:diethylbarbituric acid, bis(dithiobiuret-S,S')nickel(II):diuracil, platinum 3,3'-dihydroxymethyl-2,2'-bipyridine dichloride: AgF3CSO3, 4,4'-bipyridyl: isophthalic acid, 4.4'-bipyridyl:1,4-naphthalenedicarboxylic acid, 4,4'-bipyridyl:1,3,5-cyclohexanetricarboxylic acid, 4,4'-bipyridyl:tricaballylic acid, urotropin:azelaic acid, insulin:C8-HI (octanoyl-Ne-LysB29-human insulin), isonicotinamide:cinnamic acid, isonicotinamide:3hydroxybenzoic acid, isonicotinamide:3-N,N-dimethylaminobenzoic acid, isonicotinamide:3,5-bis(trifluoromethyl)-benzoic acid, isonicotinamide:d,l-mandelic acid,

isonicotinamide:chloroacetic acid, isonicotinamide:fumaric acid monoethyl ester, isonicotinamide:12-bromododecanoic acid, isonicotinamide:fumaric acid, isonicotinamide:succinic acid, isonicotinamide:4-ketopimelic acid, isonicotinamide:thiodiglycolic acid, 1,3,5-cyclohexane-tricarboxylic acid:hexamethyltetramine, 1,3,5-cyclohexane-tricarboxylic acid:4,7-phenanthroline, 4,7phenanthroline:oxalic acid, 4,7-phenanthroline:terephthalic acid, 4,7-phenanthroline: 1,3,5cyclohexane-tricarboxylic acid, 4,7-phenanthroline: 1,4-naphthalenedicarboxylic acid, pyrazine:methanoic acid, pyrazine:ethanoic acid, pyrazine:propanoic acid, pyrazine:butanoic acid, pyrazine:pentanoic acid, pyrazine:hexanoic acid, pyrazine:heptanoic acid, pyrazine:octanoic acid, pyrazine:nonanoic acid, pyrazine:decanoic acid, diammine-(deoxyquanyl-quanyl-N⁷.N⁷)-platinum:tris(glycine) hydrate, 2-aminopyrimidine:pphenylenediacetic acid, bis(2-aminopyrimidin-1-ium)fumarate:fumaric acid, 2aminopyrimidine:indole-3-acetic acid, 2-aminopyrimidine:N-methylpyrrole-2-carboxylic acid, 2-aminopyrimidine:thiophen-2-carboxylic acid, 2-aminopyrimidine:(+)-camphoric acid, 2,4,6-Trinitrobenzoic acid: 2-aminopyrimidine, 2-aminopyrimidine:4-aminobenzoic acid, 2aminopyrimidine:bis(phenoxyacetic acid), 2-aminopyrimidine:(2,4-dichlorophenoxy)acetic acid, 2-aminopyrimidine:(3,4-dichlorophenoxy)acetic acid, 2-aminopyrimidine:indole-2carboxylic acid, 2-aminopyrimidine:terephthalic acid, 2-aminopyrimidine:bis(2-nitrobenzoic acid), 2-aminopyrimidine:bis(2-aminobenzoic acid), 2-aminopyrimidine:3-aminobenzoic acid, 2-hexeneoic acid:isonicotinamide, 4-nitrobenzoic acid:isonicotinamide, 3,5dinitrobenzoic acid:isonicotinamide:4-methylbenzoic acid, 2-amino-5-nitropyrimidine:2amino-3-nitropyridine, 3,5-dinitrobenzoic acid:4-chlorobenzamide, 3-dimethylaminobenzoic acid4-chlorobenzamide, fumaric acid:4-chlorobenzamide, oxine:4-nitrobenzoic acid, oxine:3,5-dinitrobenzoic acid, oxine:3,5-dinitrosalicylic acid, 3-[2-(N',N'dimethylhydrazino)-4-thiazolylmethylthio]-N²-sulfamoylpropionamidine:maleic acid, 5fluorouracil:9-ethylhypoxanthine, 5-fluorouracil:cytosine dihydrate, 5fluorouracil:theophylline monohydrate, stearic acid:nicotinamide, cis-1-{[4-(1imidazolylmethyl)cyclohexyl]methyl}imidazole:succinic acid, CGS18320B:succinic acid, sulfaproxyline:caffeine, 4-aminobenzoic acid:4-aminobenzonitrile, 3,5-dinitrobenzoic acid:isonicotinamide:3-methylbenzoic acid, 3,5-dinitrobenzoic acid:isonicotinamide:4-(dimethylamino)benzoic acid, 3,5-dinitrobenzoic acid:isonicotinamide:4-hydroxy-3methoxycinnamic acid, isonicotinamide:oxalic acid, isonicotinamide:malonic acid, isonicotinamide:succinic acid, isonicotinamide:glutaric acid, isonicotinamide:adipic acid, benzoic acid:isonicotinamide, mazapertine:succinate, betaine:dichloronitrophenol,

betainepyridine:dichloronitrophenol, betainepyridine:pentachlorophenol, 4-{2-[1-(2-hydroxyethyl)-4-pyridylidene]-ethylidene}-cyclo-hexa-2,5-dien-1-one:methyl 2,4-dihydroxybenzoate, 4-{2-[1-(2-hydroxyethyl)-4-pyridylidene]-ethylidene}-cyclo-hexa-2,5-dien-1-one:2,4-dihydroxypropiophenone, 4-{2-[1-(2-hydroxyethyl)-4-pyridylidene]-ethylidene}-cyclo-hexa-2,5-dien-1-one:2,4-dihydroxyacetophenone, squaric acid:4,4'-dipyridylacetylene, squaric acid:1,2-bis(4-pyridyl)ethylene, chloranilic acid:1,4-bis[(4-pyridyl)ethynyl]benzene, 4,4'-bipyridine:phthalic acid, 4,4'-dipyridylacetylene:phthalic acid, bis(pentamethylcyclopentadienyl)iron:bromanilic acid, bis(pentamethylcyclopentadienyl)iron:chloranilic acid, bis(pentamethylcyclopentadienyl)iron:cyananilic acid, pyrazinotetrathiafulvalene:chloranilic acid, phenol:pentafluorophenol, co-crystals of itraconazole, and co-crystals of topiramate.

Abstract

A pharmaceutical composition comprising a co-crystal of an API and a co-crystal forming compound; wherein the API has at least one functional group selected from ether, thioether, alcohol, thiol, aldehyde, ketone, thioketone, nitrate ester, phosphate ester, thiophosphate ester, ester, thioester, sulfate ester, carboxylic acid, phosphonic acid, phosphinic acid, sulfonic acid, amide, primary amine, secondary amine, ammonia, tertiary amine, sp2 amine, thiocyanate, cyanamide, oxime, nitrile diazo, organohalide, nitro, s-heterocyclic ring, thiophene, n-heterocyclic ring, pyrrole, o-heterocyclic ring, furan, epoxide, peroxide, hydroxamic acid, imidazole, pyridine and the co-crystal forming compound has at least one functional group selected from amine, amide, pyridine, imidazole, indole, pyrrolidine, carbonyl, carboxyl, hydroxyl, phenol, sulfone, sulfonyl, mercapto and methyl thio, such that the API and co-crystal forming compound are capable of co-crystallizing from a solution phase under crystallization conditions.



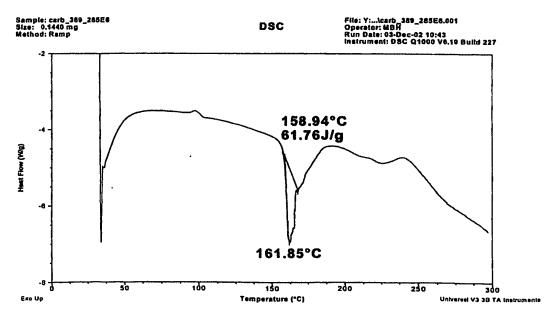
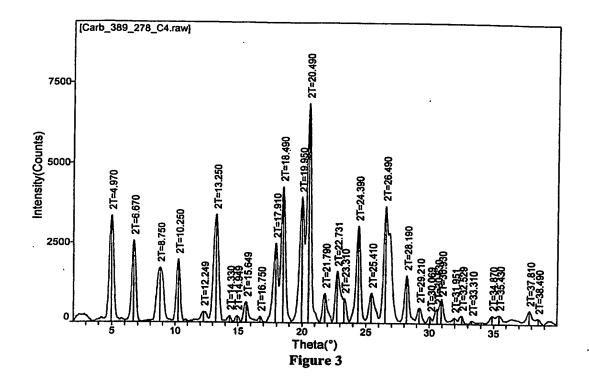


Figure 2



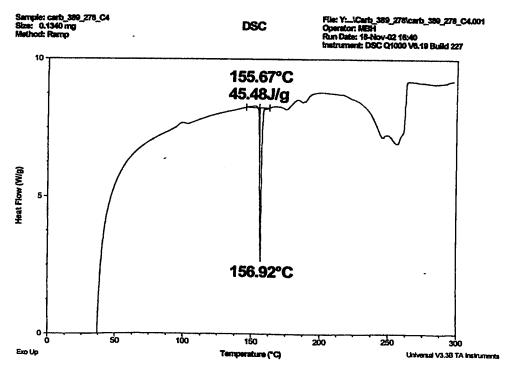


Figure 4

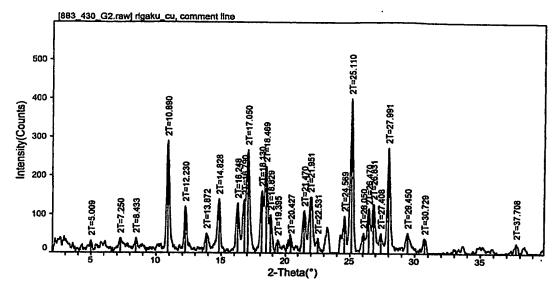


Figure 5

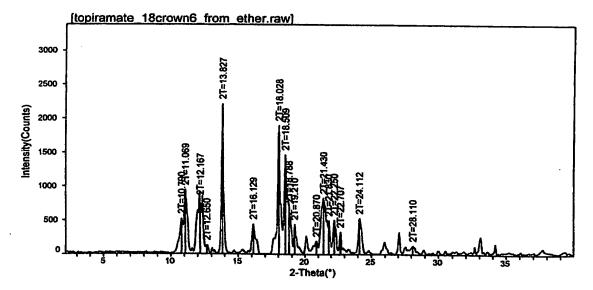


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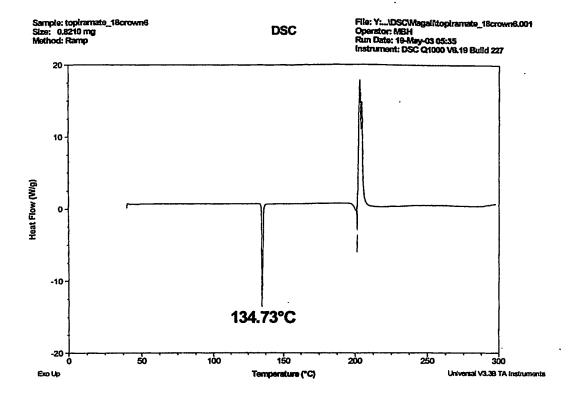


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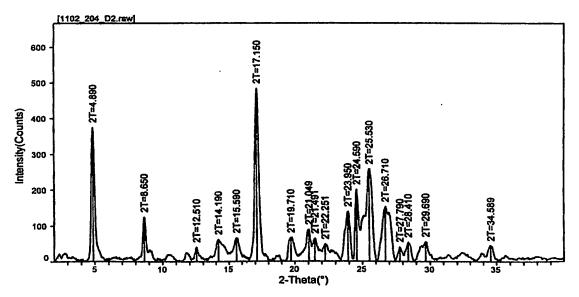


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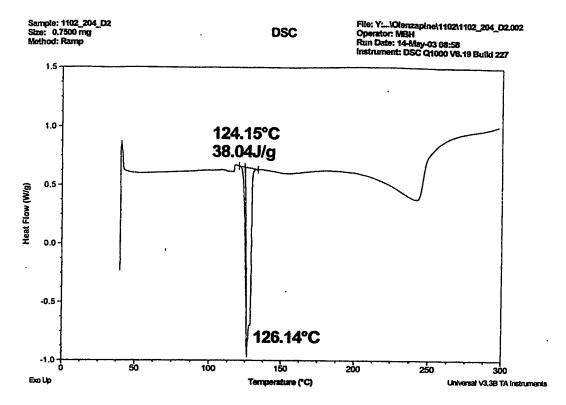


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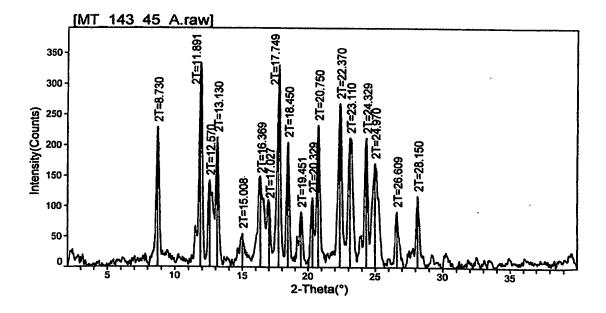


Figure 10

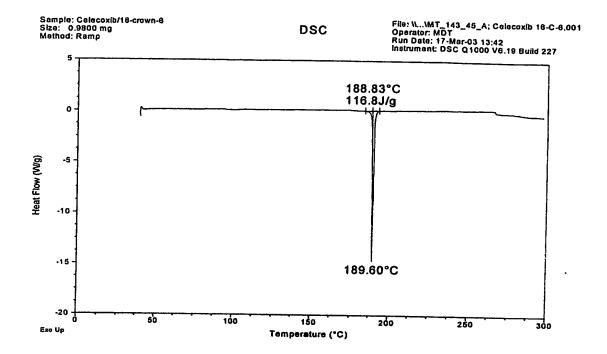


Figure 11

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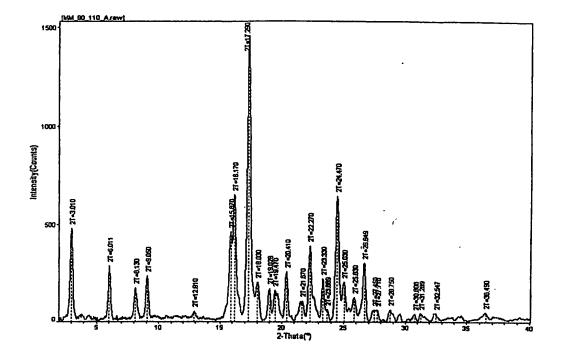


Figure 12

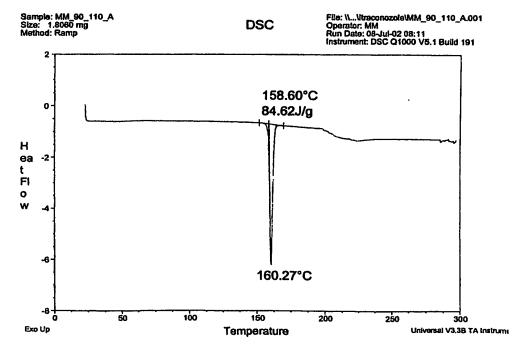


Figure 13

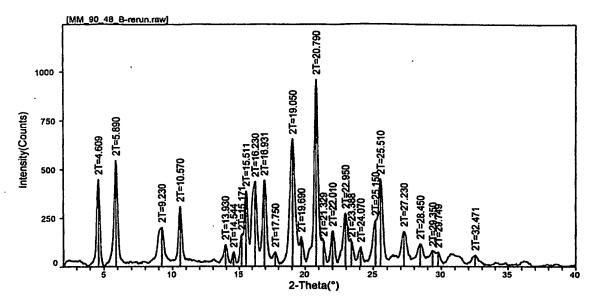


Figure 14

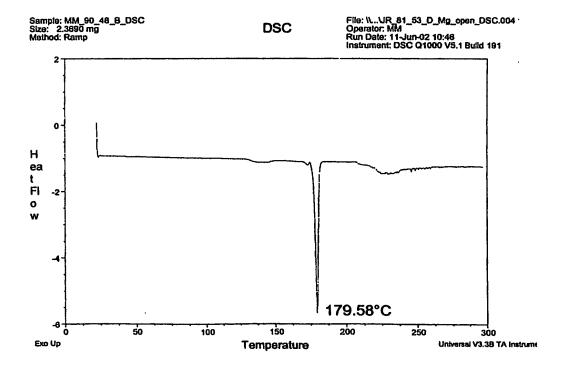


Figure 15

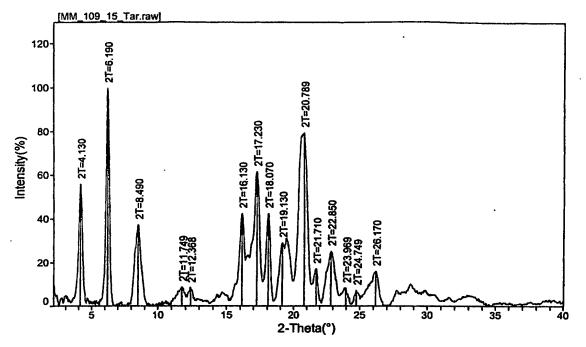


Figure 16

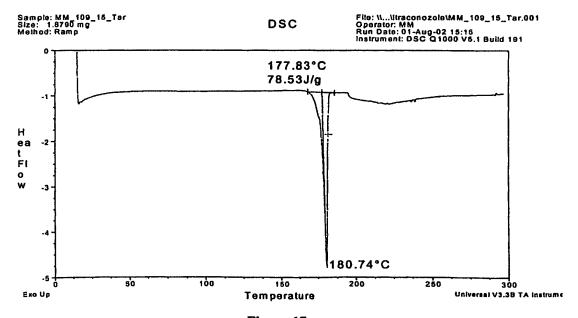


Figure 17

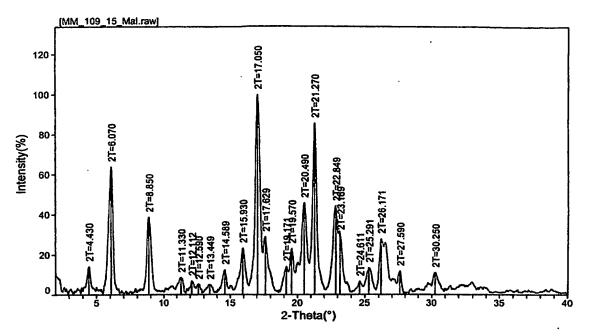


Figure 18

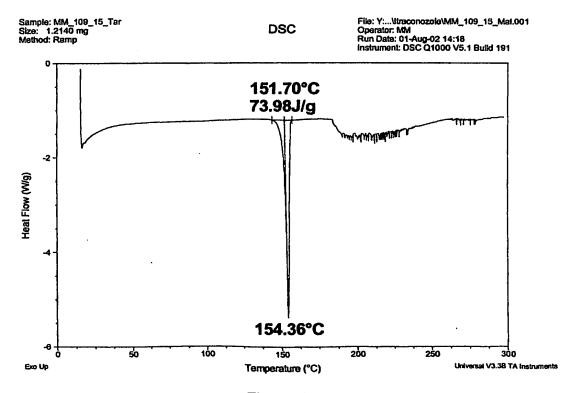


Figure 19

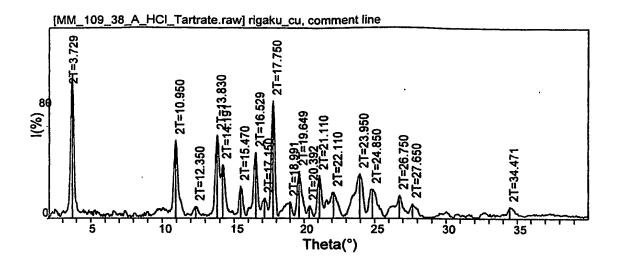


Figure 20

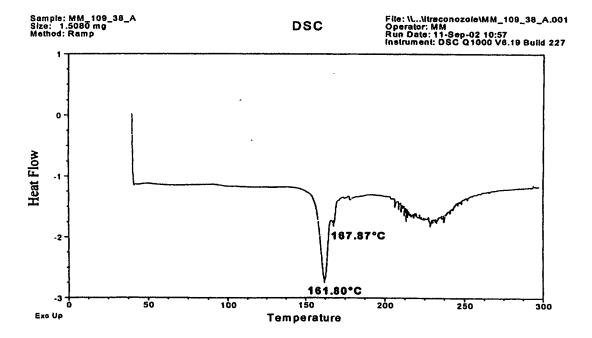


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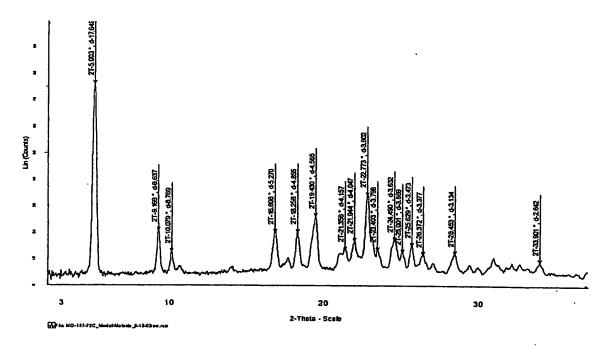


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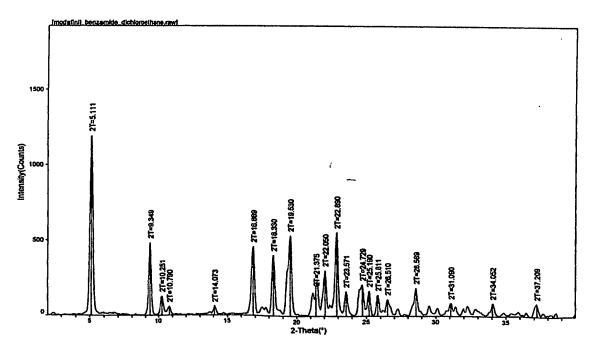


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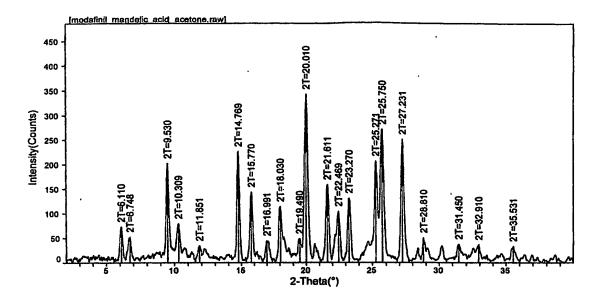


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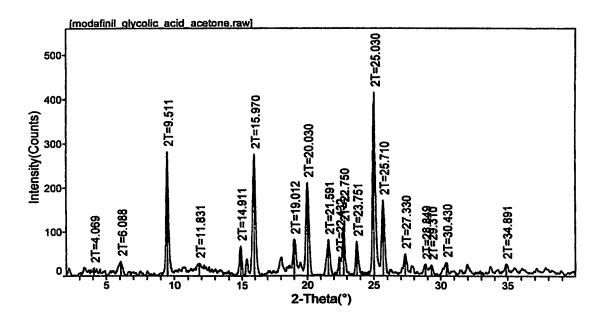


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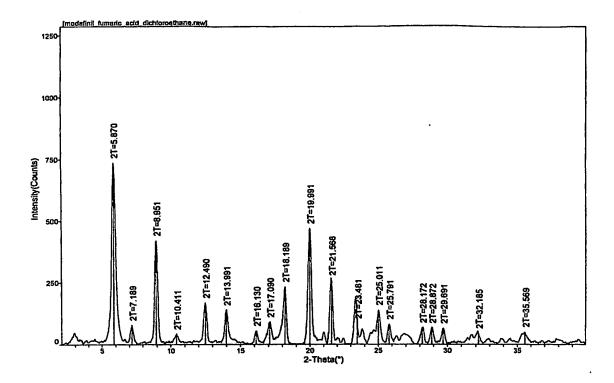


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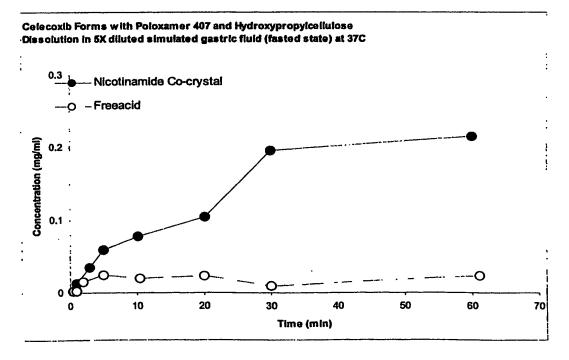
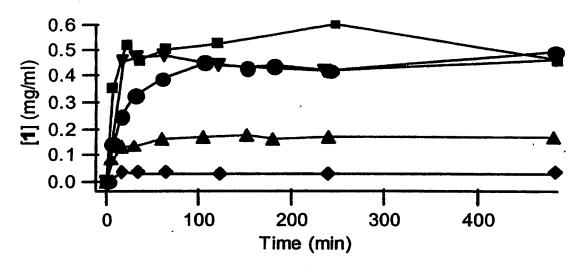


Figure 27



Dissolution profiles into 0.1 N HCl at 25 °C

Sporanox Beads (amorphous freebase) (Rectangle)

I-Malate (Inverted triangle)

1-Tartrate (Oval)

Succinate (Triangle)

Crystalline Freebase (Diamond)

Figure 28

Figure 29

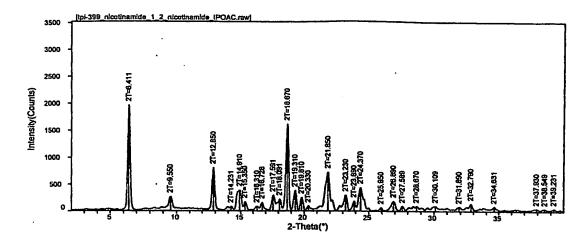


Figure 30

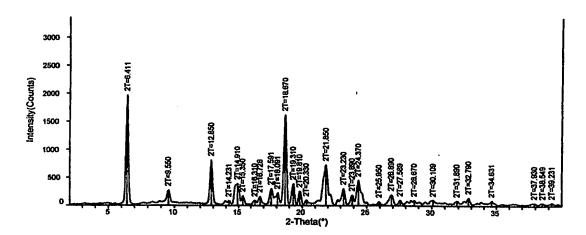


Figure 31

Molecular structure of the Olanzapine-nicotinamide-H2O-IPOAc crystal:

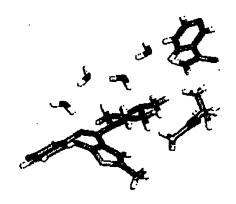


Figure 32A

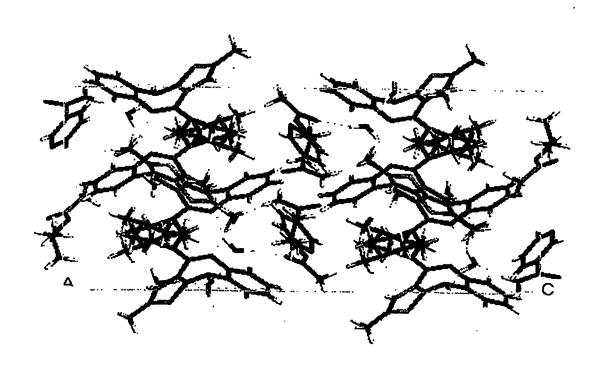
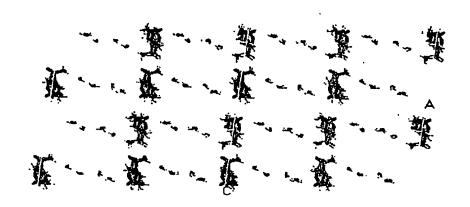


Figure 32B



The Olanzapine molecules occupy the spaces shown above and are hydrogen bonded to the water molecules.

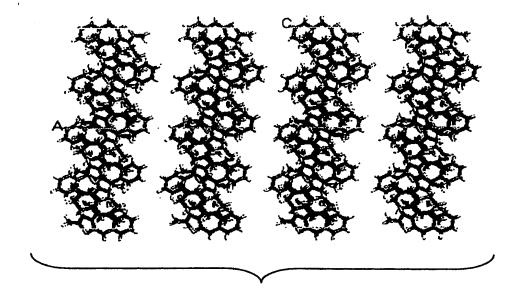


Figure 32C

The arrangement of the Olanzapine molecules is similar to that observed from the methanol solvate and the published structures for the hydrates. The water molecules bridge the Olanzapine moieties resulting in hydrogen-bonded zigzag sheets.

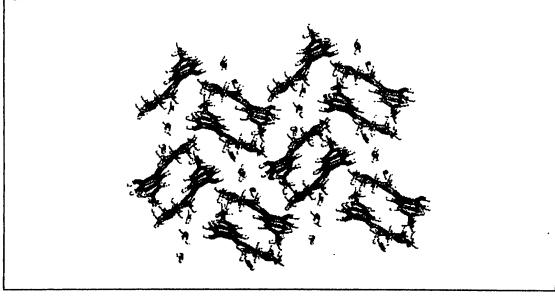


Figure 32D

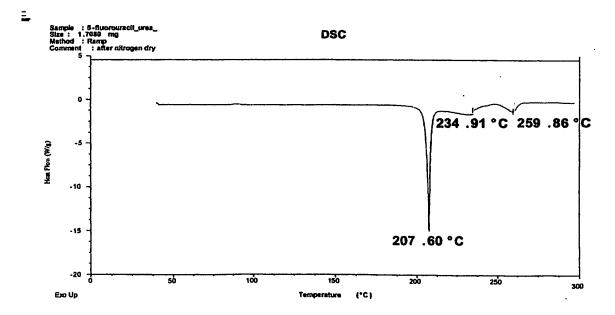


Figure 33

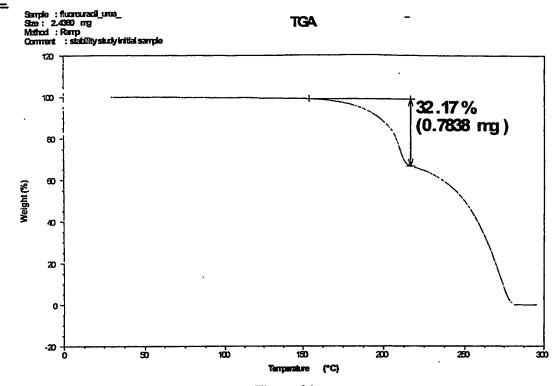


Figure 34

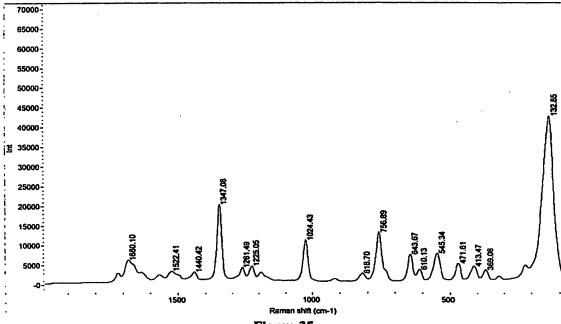


Figure 35

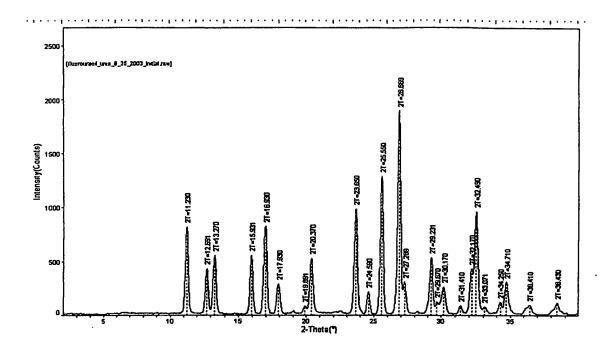


Figure 36

Tuesday, Sep 02, 2003 11:(0a (MDVJADES)

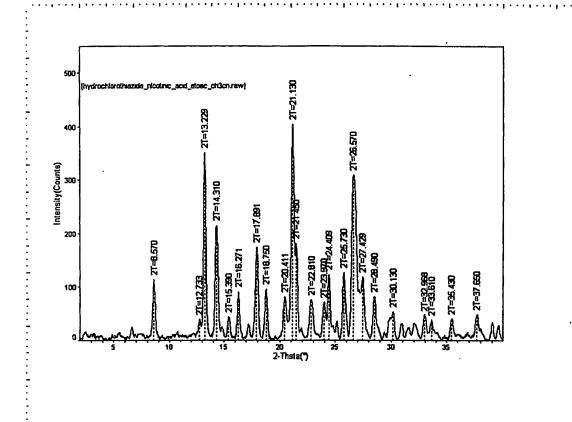


Figure 37

Materials Date, Inc.

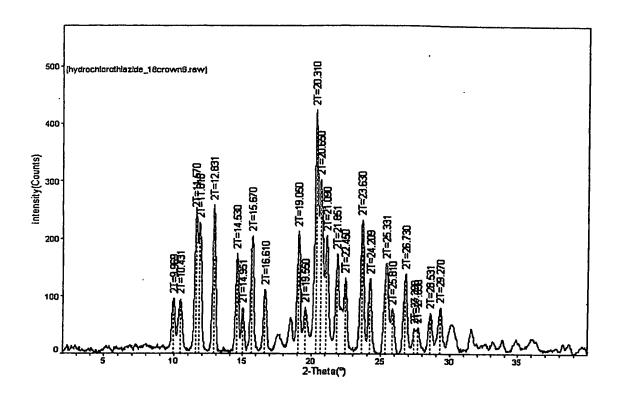
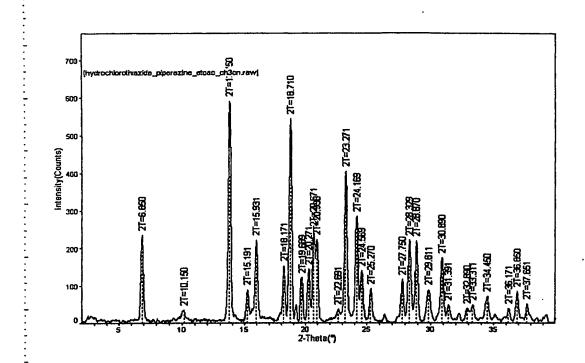


Figure 38

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Materials Data, Inc

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Figure 39

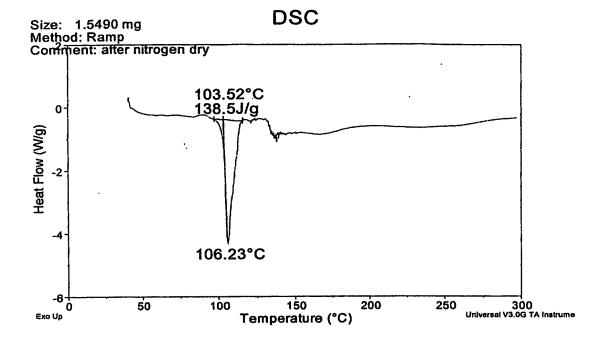
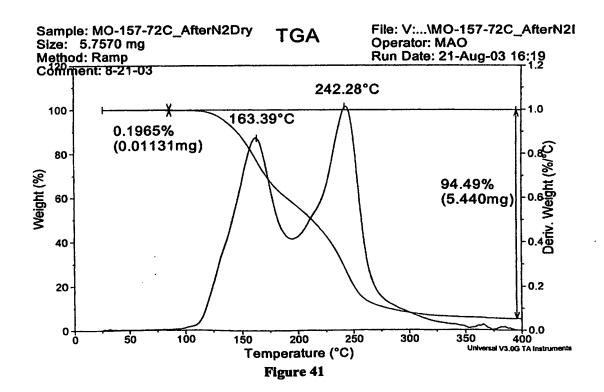
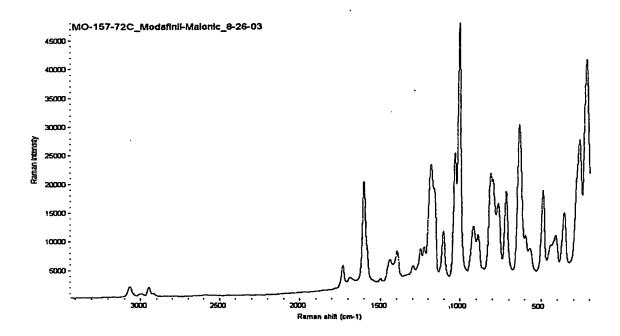


Figure 40





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Sensitivity:	80		
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Position:	222	Interesity:	41931.176
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Pasition:	285	Intensity:	27932.348
Position:	1032	Intensity:	25424.100
Position:	1183	intensity:	23455.441
Position:	814	Interesity:	21888.129
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Position:	400	intensity:	18017.460
Position:	718	intersity:	18770.322
Position:	787	intensity:	18891 541
Position:	351	intensity:	16080.872
Position:	B 17	Intersity:	12651 203
Position:	1104	intensity:	11708.740
Position:	889	Intensity:	11172.033
Position:	412	intensity:	11137.415
Position:	1225	intensity:	9027.109
Position:	1251	interesity:	8044.633
Position:	1398	intensity:	8262.702
Position:	1442	Intensity:	6738.624
Position:	1731	intensity:	5730.559
Pasition:	1298	Intensity:	5700.050
Position:	3065	Intensity:	1935.514
Pasition:	2849	intensity:	1912.835

Exposure time: 2.00 sec Number of exposures: 15 Number of background exposures: 15 Grating: 380 lines/mm Spectrograph aperture: 100 µm sit

Figure 42

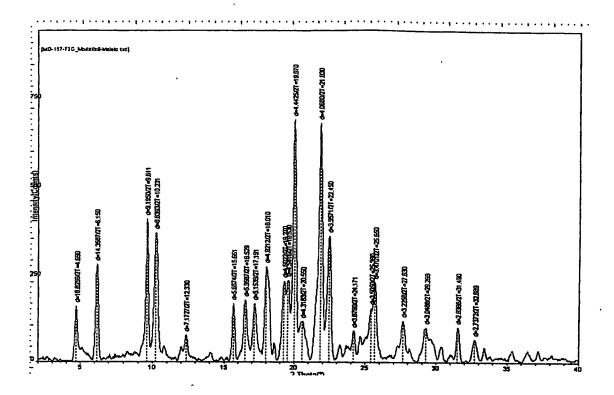


Figure 43

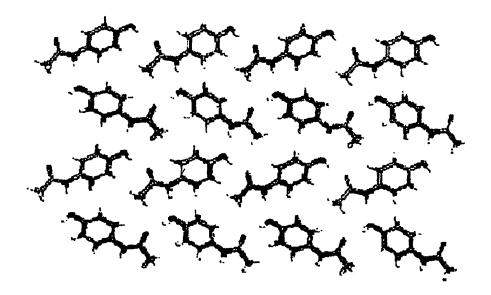


Figure 44A

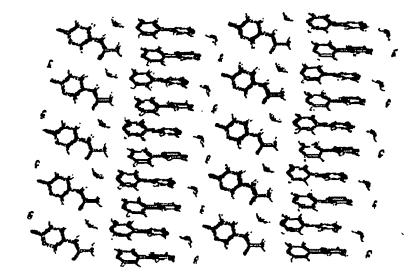


Figure 44B

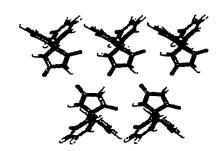


Figure 45A

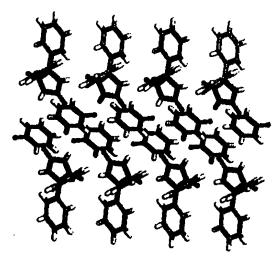


Figure 45B

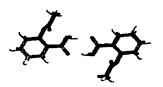


Figure 46A



Figure 46C

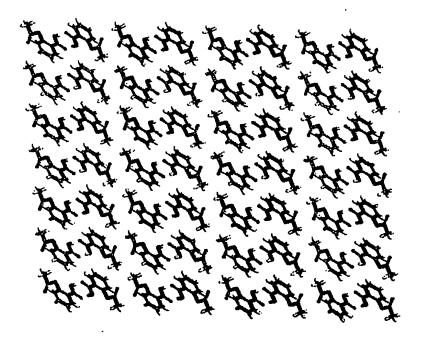


Figure 46B

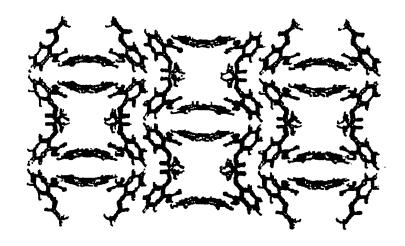
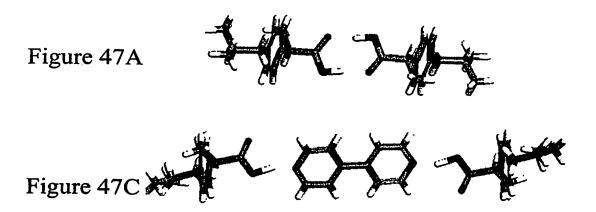


Figure 46D



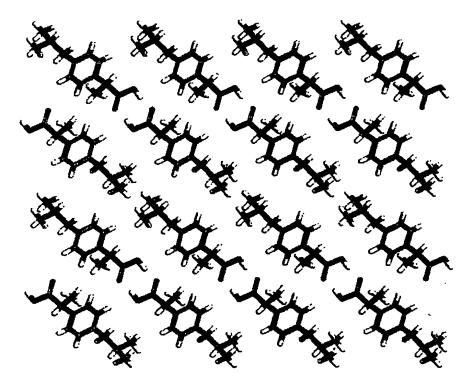


Figure 47B

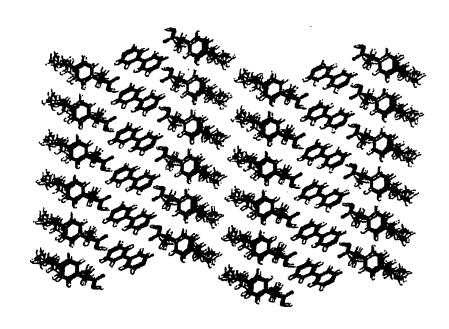
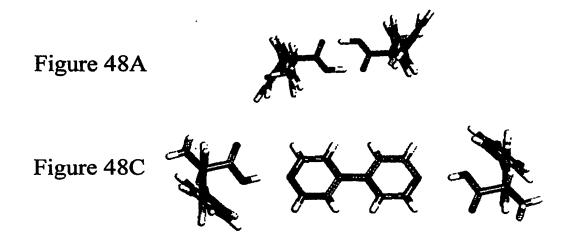


Figure 47D



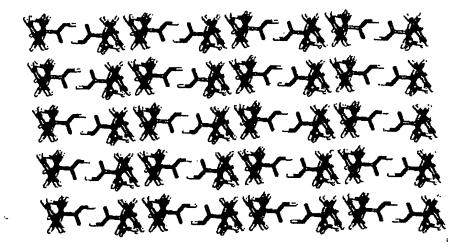


Figure 48B

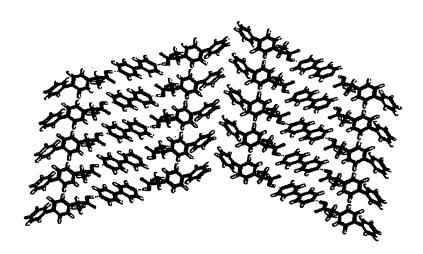


Figure 48D

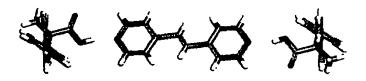


Figure 49A

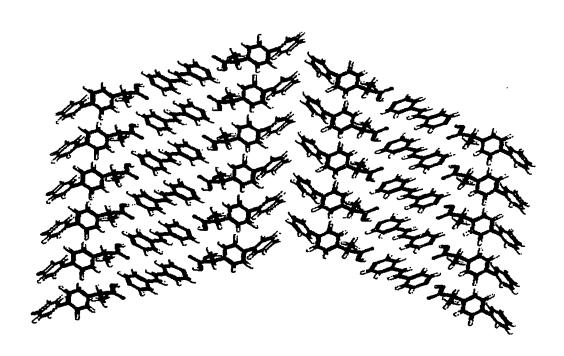


Figure 49B

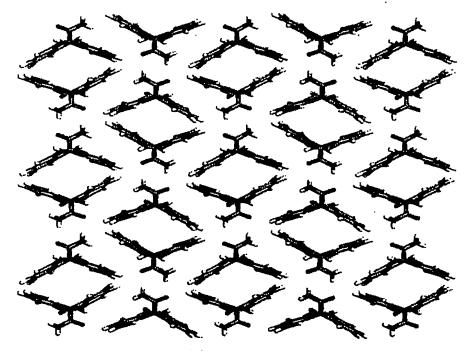


Figure 50A

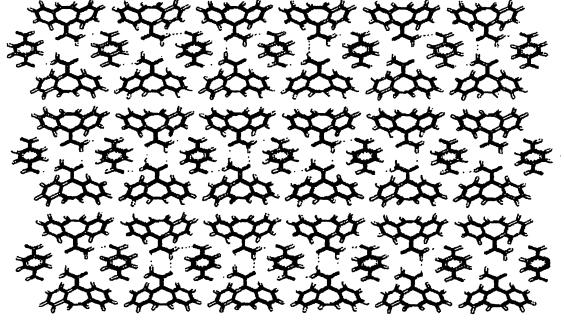


Figure 50B

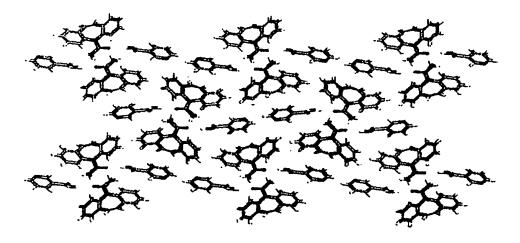


Figure 51

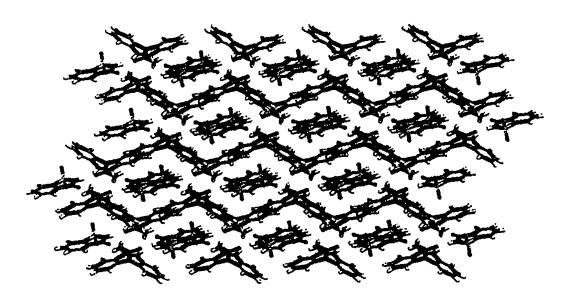


Figure 52

Figure 53A

Figure 53B

Figure 53C

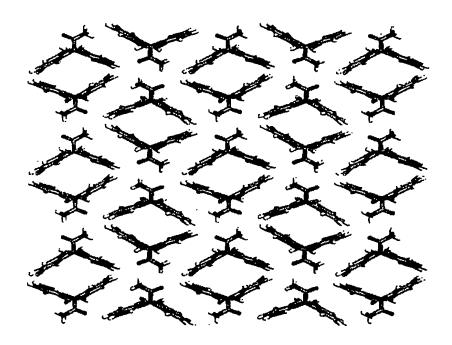


Figure 54A

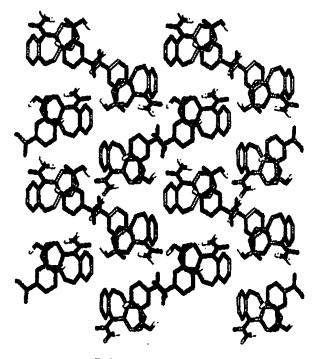


Figure 54B

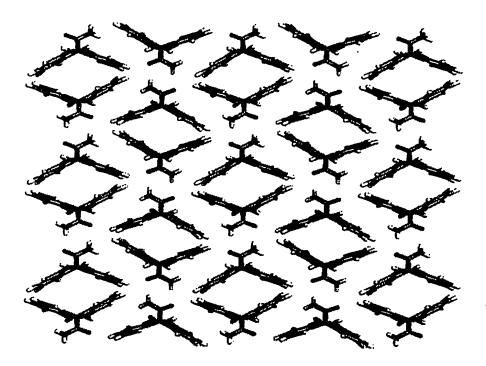


Figure 55A

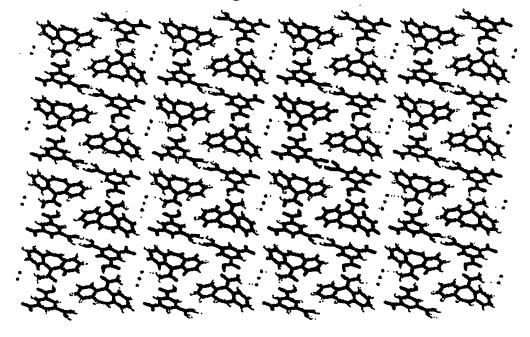


Figure 55B

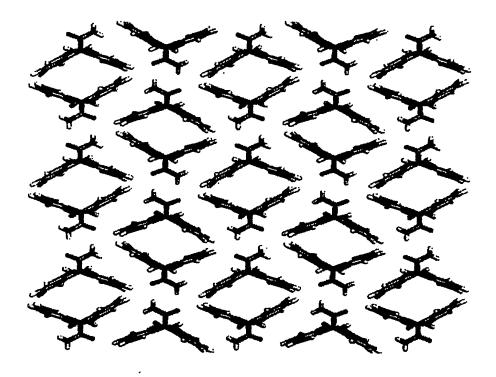


Figure 56A

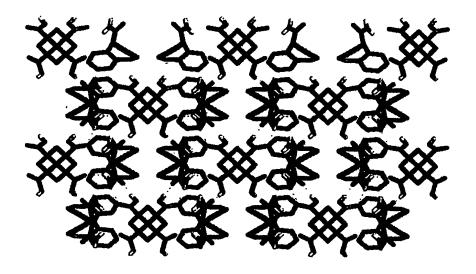


Figure 56B

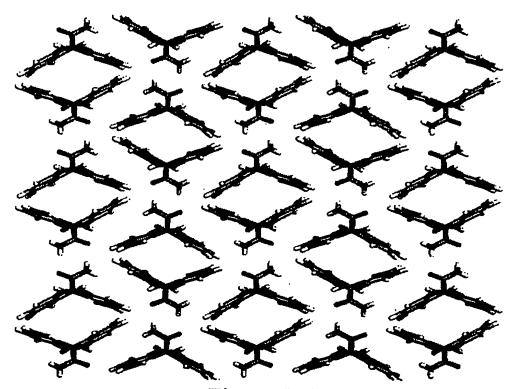


Figure 57A

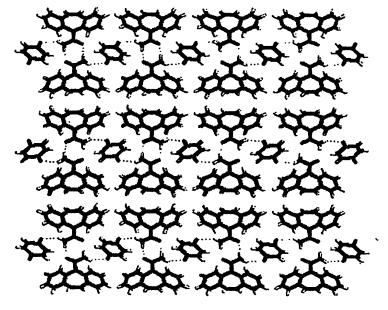


Figure 57B

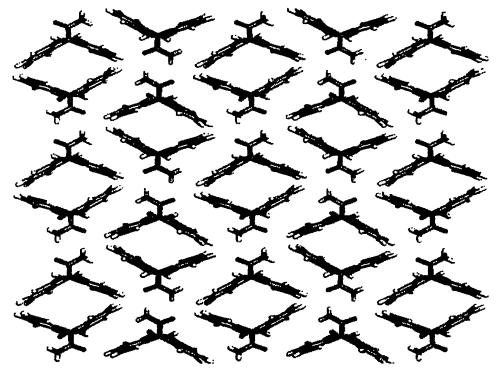


Figure 58A

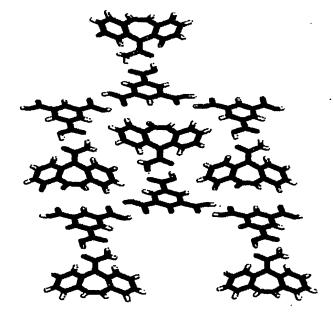


Figure 58B

· iii a a continued to a continued t

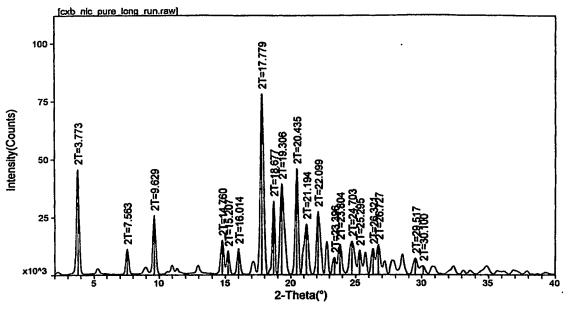


Figure 59

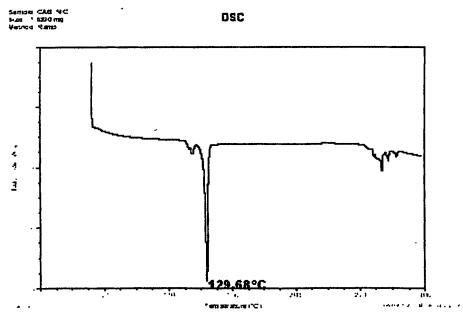


Figure 60

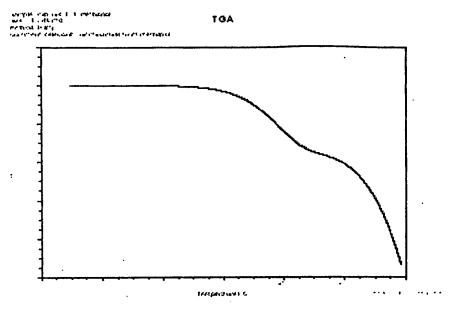
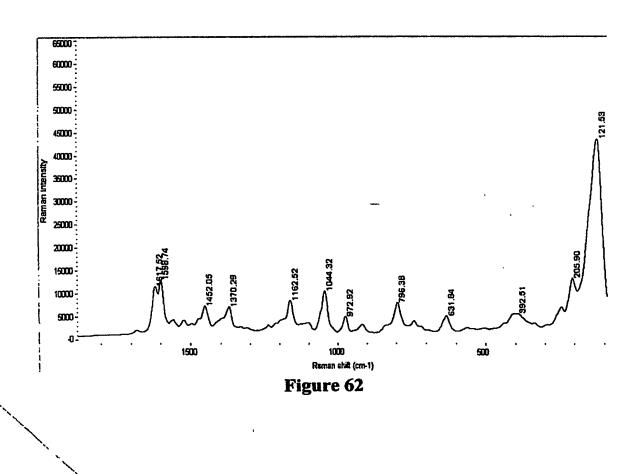


Figure 61

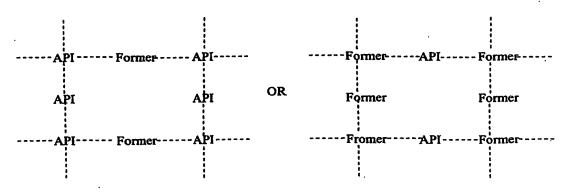


(Figure 63)

1. One-dimentional (linear) hydrogen-bonded chains:

2. Isolated rings:

3. Extended Networks:



4. Isolated triads:

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